BW Industrial - EHS SVT (WBP) /!\ Obsolete /!\

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The new wiki link for this data flow is here:

Technical Documentation - EHS SVT Report

Please update the doc there and no longer here.

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General presentation

Objective of the application

EHS stands for Environment, Health and Safety. The Goal of **EHS** is to protect employees, the public, the environment and to comply with applicable laws and protect the Company's reputation. EHS departments, of some companies are responsible for environmental protection, occupational health and safety.

This application described below concerns one of EHS goals : Reporting for Substance Volume Tracking (SVT)

In many countries, regulations state that, above a certain quantity of chemicals and other hazardous substances, you must register with the authorities the maximum quantities of these substances that you plan to purchase, import, produce, sell, or export within a certain period. Substance volume tracking helps you to comply with the relevant regulations by recording the quantities of substances needing to be tracked that you purchase, import, produce, sell, or export. By comparing the recorded quantities with the limit values, the system can warn you in good time before a limit value is exceeded

The SAP module is installed and used on Solvay/RCS legacy systems. The standard SVT does not bit business rules.
The SVT reporting is now based on a BW solution.

Tool Leader + IT leader of the application:

Usage information

Around 90 users, worldwide. Each country can only report on its data.

History

2014 - SVT Roll Out Asia/Turkey => KT document "SVT RO // Knowledge Transfer" => https://drive.google.com/file/d/1APiNeBsXh3SRr4FM-EPt_6Z3QvA0CVoGHzbVJHKwEO0/view

2015 - SVT Roll Out Europe/USA/Canada => KT document "EHS-SVT-Documentation" => https://drive.google.com/file/d/1-JtKS1GfXEcoIdG7yVwOLv948sqf9KXf9fJHvLu_AE0/view

other usefull link

WIKI EHS : Product Stewardship - Safety Data Sheets => access to ask to Vincent Desthieux

SVT Asie - Initial Specifications : https://drive.google.com/drive/folders/1p_6EAHHUd2LG94KH2l_EmRkebxT_0S_v

SVT Asie - Mockup (Convergence Project) : https://drive.google.com/drive/folders/1zk2AFH15apzN0tliOQpRY9-DYS5bhStt

SVT Roll Out Asia/Turkey - Knowledge Transfer (SVT Solution before deploiement US/CA/EU) : https://drive.google.com/file/d/1APiNeBsXh3SRr4FM-EPt_6Z3QvA0CVoGHzbVJHKwEO0/view

Roles & Access

Roles and access

Role Code	Role Description	Explanation
ZR_RCS_EHS_A07	EHS – Substance Volume Tracking Application - End User Role	Role menu / Based on authorization object ZBI_SVT Caution: ZBI_SVT gives access to all C_PLANT including BUTA (CC ZFR9). As the roles where not ready it has been decided not to load Buta data in REACH cube (SVT Analysis - EU (Rhodia) / CREHS06) => the company code ZFR9 is filtered in both DTP. See below important information
ZR_RCS_CA_M48	EHS – Substance Volume Tracking	Role menu which gives acces to all workbooks.
ZBI_JP_EHS_P06	EHS – Substance Volume Tracking Japan	Role perimeter / Based on authorization object ZJPEHSP06 / Country JP
ZBI_KR_EHS_P06	EHS – Substance Volume Tracking Korean	Role perimeter / Based on authorization object ZKREHSP06 / Country KR

ZBI_CN_EHS_P06	EHS – Substance Volume Tracking China	Role perimeter / Based on authorization object ZCNEHSP06 / Country CN
ZBI_TR_EHS_P06	EHS – Substance Volume Tracking Turkish	Role perimeter / Based on authorization object ZTREHSP06 / Country TR
ZBI_TOUT_EHS_P06	EHS – Substance Volume Tracking ALL PERIMETER	Role perimeter / Based on authorization object ZALLEHSP06 / all countries
ZBI_EU_EHS_P06	EHS – Substance Volume Tracking Europe	Role perimeter / Based on authorization object ZEUEHSP06 / Country of the REACH area FR, BE, DE...
ZBI_US_EHS_P06	EHS – Substance Volume Tracking USA	Role perimeter / Based on authorization object ZUSEHSP06 / Gives access to country US Associated country and islands PR, GU, VI, AS , MP should also be part of the perimeter role. Currently it is not the case.
ZBI_CA_EHS_P06	EHS – Substance Volume Tracking Canada	Role perimeter / Based on authorization object ZCAEHSP06 / Country CA

Usefull to know :

1- Menu Roles ZR_RCS_CA_M40 “EHS – Substance Volume Tracking Asia” and ZR_RCS_CA_M36 “EHS – Substance Volume Tracking North America” are now obsolete.

There are replaced by ZR_RCS_CA_M48.

2- Perimeter roles ZBI_RCS_EHS_P06 to ZBI_RCS_EHS_P12 are obsolete because Authorization Team has decided to use naming ZBI_xx_EHS_P06 (xx = country)

3- Perimeter roles ZR_RCS_EHS_P06 to P09 and P11, P13 to P15 are obsolete because old naming.

Usefull to know concerning BUTA Chimie (Company Code ZFR9) :

A filter on C_PLANT from authorization has been added in all SVT queries :

- variable V_AUT_C_PLANT_0001 for EU report as the Plant is a selection criteria
- variable V_C_PLANT_0001 for all other as the Plant is not a selection citeria

The C_PLANT will have to be removed in object ZBI_SVT (Application Role ZR_RCS_EHS_A07)

Following perimeter role will have to be managed for all EHS SVT users :

- For all plants, except BUTA, use perimeter role ZR_TOUT_CA_P02 / object ZTOUTCAP02
- For BUTA plants, use perimeter role ZR_7866_CA_P02 / object Z7866CAP02

The BUTA data will have to be loaded in cube REACH (SVT Analysis - EU (Rhodia) / CREHS06).

Usefull current authorization matrix

See also file maintained by Authorization team : BW Catalog of Roles / link: https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5I

Authorization objects

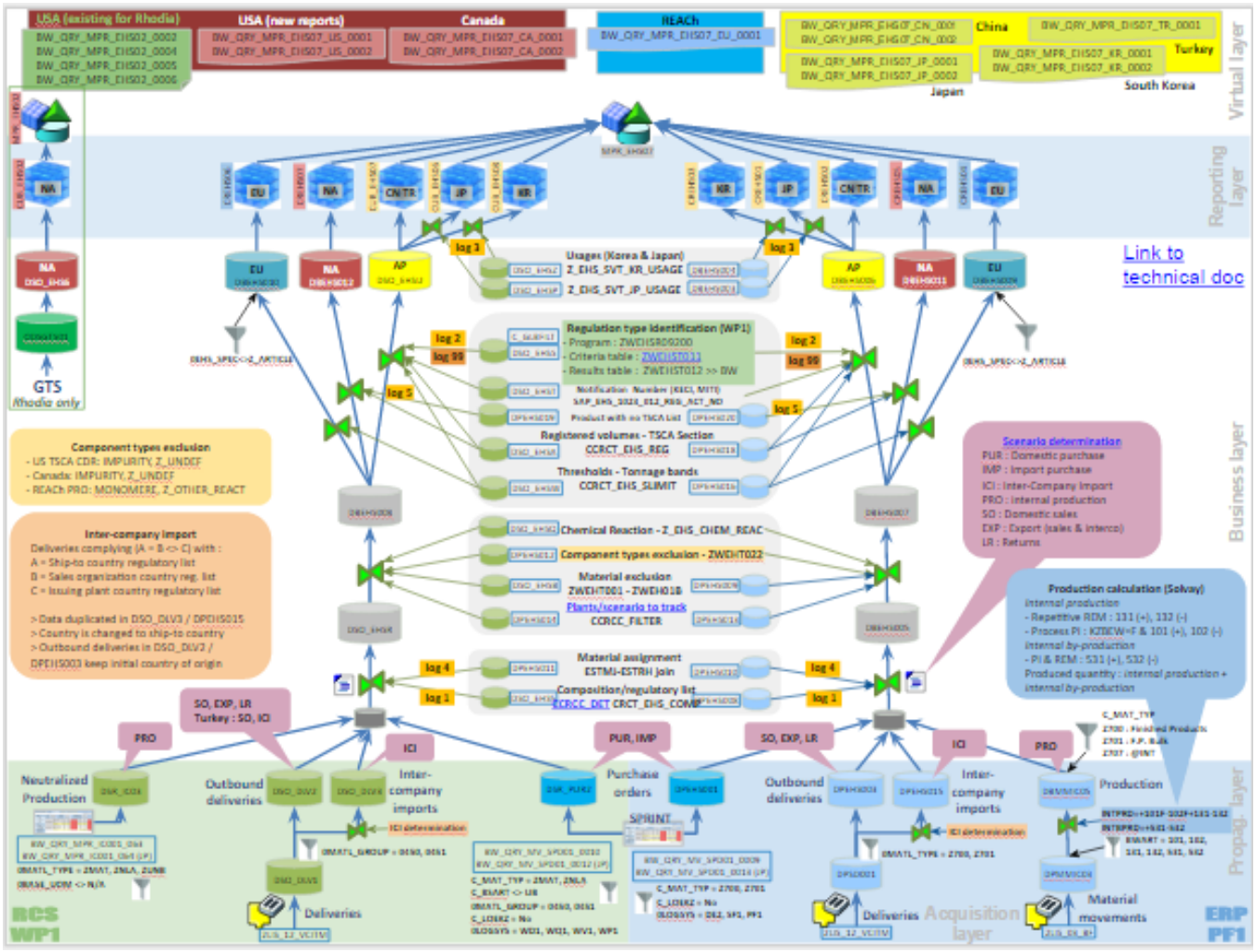
List of autorisation objects mandatory for the application.

Authorization object	Explanation
Country of Origin (C_CNTRY_O)	
Plant (C_PLANT)	See above explanation for role ZR_RCS_EHS_A07

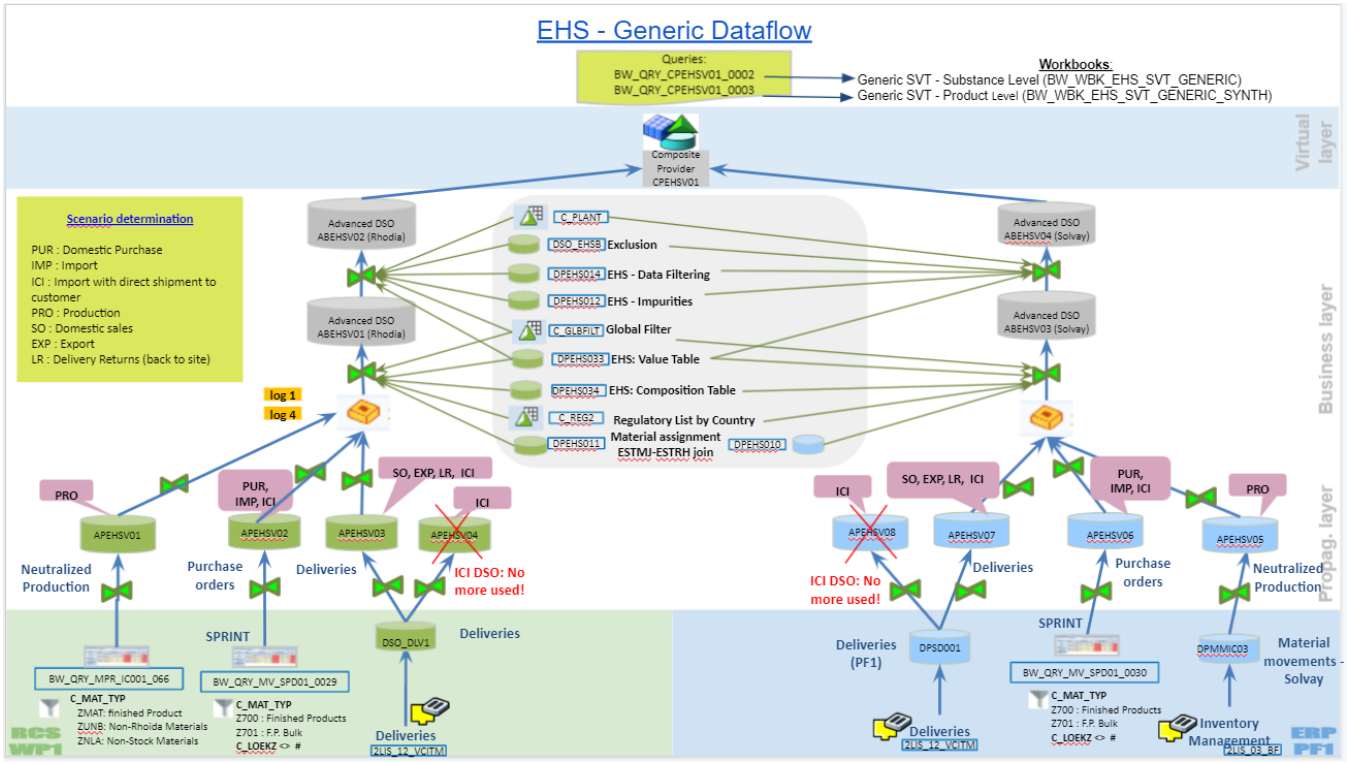
Dataflow overview

The dataflow is in the following document : EHS-SVT-Documentation https://drive.google.com/file/d/1-JtKS1GfXEcoIdG7yVwOLv948sqf9KXf9fJHvLu_AE0/view

Old Dataflow:



Generic dataflow



Reporting documentation drive folder:

https://drive.google.com/drive/folders/0B0qn89R0RGdqYkZZOFZyYXlXVkE

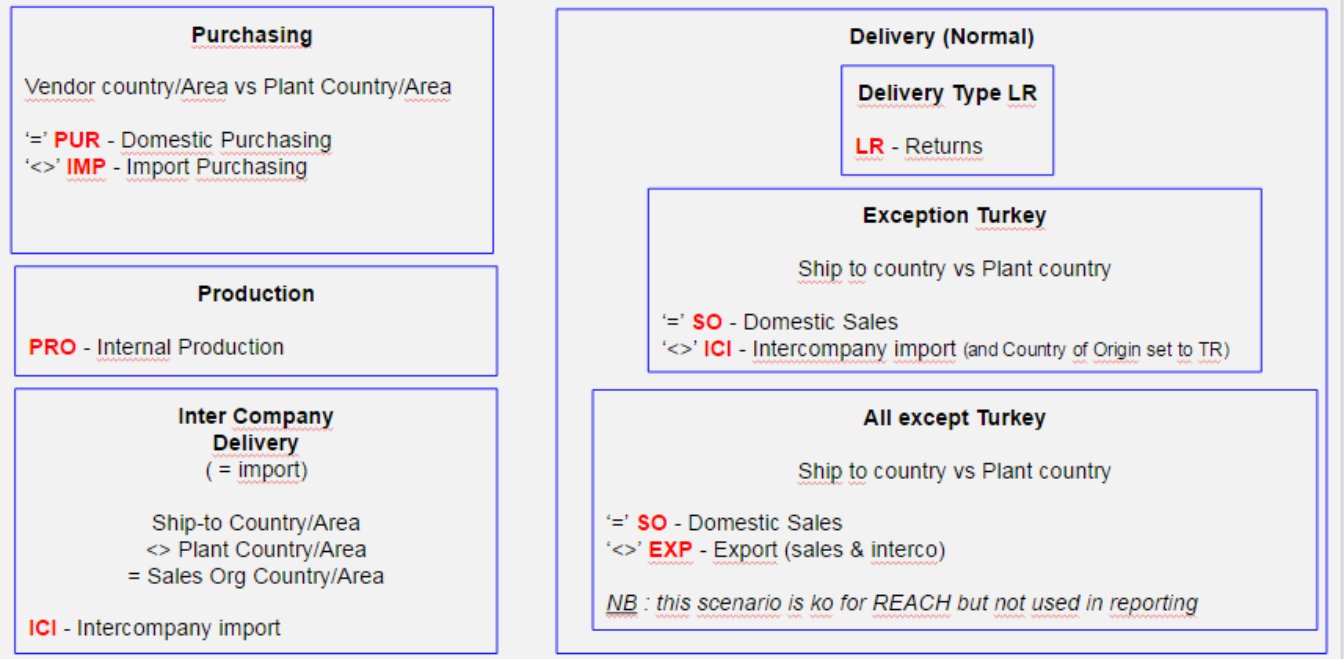
Exemple of dataflow overview :

Template Application name DataFlow

Functional and Technical rules on Workbench + Reporting

Rules & Explanations

Scenario Determination (C_SCEN)



To be updated.

Unit conversions

The Unit conversion is done in the Bex queries (Quantity Conversion Type), depending on reports

- Reporting in pound (LB) for US
- Reporting in kilogram (KG) for Canada
- Reporting in Ton (TO) for all others

Transactionnal data are stored in material base unit, except of SPRINT Reception quantities (PO Unit)

- if base unit / po unit is managed in dimension MASS, conversion within table T006 works well
- if base unit / po unit is not managed in dimension MASS, conversions for KG/LB/TO have to be managed on ERP side (MM03 / Alternative Conversion).

Example : production done on unit KRE; other used units 1KG, M2, M3, KN3...

There are many "special" units on Solvay ERP.

Important :

Quantities are not converted when loading data, and are not store into cubes (The conversion is done when running the report)

So, if a conversion is missing for a material ask the material referent to

1- manage the conversion on ERP Side by managed the material master (MM03) / unit of measure tab

2- the day after, when the DSO UOMCMAT2 is filled, the conversion is applied in the reports. It applies to whole data without any reloading.

Bex variables & corresponding class

Following variables are used in the Bex Queries used to extract data for SVT and also in DTP for weekly loading.

See ABAP Code in Classe (SE24) / Table for BADI / Variable link = ZBIU001_V_VAR

- BEFORE_VARIABLE_SCREEN method has been filled to BEx Queries (Souce of data)
- AUTHORITY_CHECK method has been filled to use variable in DTP selection

Variable Name	Variable Description	Related classe name	object

V_0CALMONTH_0001	Get period (Current or current+previous) for Japan from c_glbfilt in variable V_0CALMONTH_0001	ZCL_BIU001_V_0CALMONTH_0001	0CALMONTH
V_0CALMONTH_0002	Get period (Current or current+previous) for Other cnrty from c_glbfilt in variable V_0CALMONTH_0002	ZCL_BIU001_V_0CALMONTH_0002	0CALMONTH
V_0CALMONTH_0003	Get period current period for Japan from c_glbfilt in variable V_0CALMONTH_0003	ZCL_BIU001_V_0CALMONTH_0003	0CALMONTH
V_0CALMONTH_0004	Get previous period for Japan from c_glbfilt in variable V_0CALMONTH_0004	ZCL_BIU001_V_0CALMONTH_0004	0CALMONTH
V_0CALMONTH_0005	Get current period for Other country from c_glbfilt in variable V_0CALMONTH_0005	ZCL_BIU001_V_0CALMONTH_0005	0CALMONTH
V_0CALMONTH_0006	Get previous period for other country from c_glbfilt in variable V_0CALMONTH_0006	ZCL_BIU001_V_0CALMONTH_0006	0CALMONTH
V_0CALMONTH_0046	Get period from global filter c_glbfilt stream EHS_SVT rule DATA_LOAD in variable V_0CALMONTH_0046 in CURRENT mode: current year + 2 last years.	ZCL_BIU001_V_0CALMONTH_0046	0CALMONTH
V_0CALMONTH_0052	Get period from global filter c_glbfilt stream EHS_SVT rule DATA_LOAD in variable V_0CALMONTH_0052 in CURRENT mode: current and previous month	ZCL_BIU001_V_0CALMONTH_0052	0CALMONTH
V_0CALMONTH_0053	Get period from global filter c_glbfilt stream EHS_SVT rule DATA_LOAD in variable V_0CALMONTH_0053 in CURRENT mode: current year (from 01 to current month)	ZCL_BIU001_V_0CALMONTH_0053	0CALMONTH
V_C_CNTRY_O_0004	Get the list country related with REACH regulatory list from C_REG2 in variable V_C_CNTRY_O_0004	ZCL_BIU001_V_C_CNTRY_O_0004	C_CNTRY_O
V_0PLANT_0006	EHS - Get Japan plant list (Customer Exit)	ZCL_BIU001_V_0PLANT_0006	0PLANT
V_0PLANT_0007	EHS - Get other plant list (Customer Exit)	ZCL_BIU001_V_0PLANT_0007	0PLANT

Bex queries used for data loading

Bex queries have been created to extract data from existing BW applications. Theses queries are dedicated to EHS, and all requested filters are done in the queries (interval of month, list of plant, material type limitation...). Queries are slightly different from RCS or Solvay.

Also Japan is always by its own has the corresponding year is from April Y to Mars Y+1

The interval of time is get from the global filter C_GLBFILT (stream EHS / rule DATA*)

For purchasing data :

Rhodia	BW_QRY_MV_SPD01_0010	SPRINT - Rhodia Purchase Other Data For EHS	13/11 Exclusion PO Doc Type UB
Rhodia	BW_QRY_MV_SPD01_0012	SPRINT - Rhodia Purchase Japan Data For EHS	13/11 Exclusion PO Doc Type UB
Solvay	BW_QRY_MV_SPD01_0013	SPRINT - Solvay Purchase Japan Data For EHS	
Solvay	BW_QRY_MV_SPD01_0009	SPRINT - Solvay Purchase Other Data For EHS	

For production data :

Rhodia	BW_QRY_MPR_IC001_063	BW - EHS - Neutralized Production Other data for EHS	26/10 Ajout des material type ZUNB / ZNLA
Rhodia	BW_QRY_MPR_IC001_064	BW - EHS - Neutralized Production Japan data for EHS	26/10 Ajout des material type ZUNB / ZNLA

On Generic dataflow, the DSO concerned by those Bex Queries as source of loading are;

- DSO APEHSV01 (Neutralized Production (WP1)) : loaded by query BW_QRY_MPR_IC001_066 (BW - EHS - Neutralized Production data for EHS (Hana Flow))
- DSO APEHSV02 (Purchasing data (WP1)) : loaded by query BW_QRY_MV_SPD01_0029 (SPRINT - Rhodia Purchase Data For EHS (Hana Flow))
- DSO APEHSV06 (Purchasing data (PF1)) : loaded by query BW_QRY_MV_SPD01_0030 (SPRINT - Solvay Purchase Data For EHS (Hana Flow))

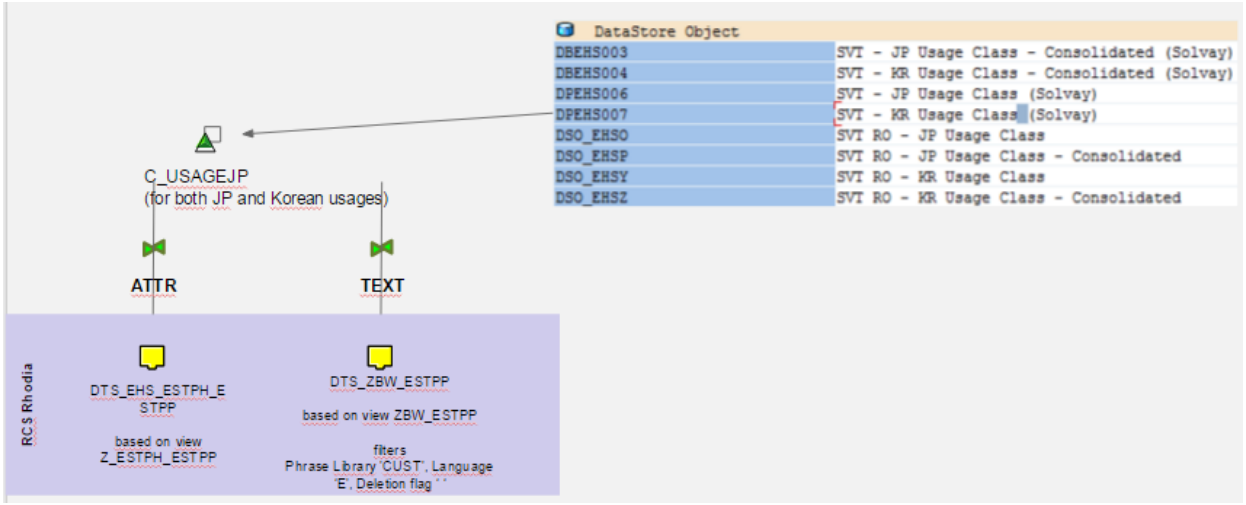
For manual loadings, ouside of current loading: be careful with large extraction on those loadings, job can use a lot of memories on the system and generate locks and dumps.

It is better to launch those loadings after or before closing periods. If not possible to wait, load on a few month time perimeter only, and not a long period.

With short time execution, loadings are OK and there is no issues.

Japan & Korean usages (C_USAGEJP) - Old dataflow only

Technical rule to avoid loading to many usage in MasterData C_USAGEJP



-> New usages are created into MasterData C_USAGEJP when these DSO are filled

Example : CUST-RH01.99000027

-> Attributs and Texts are only loaded if the usage exists in the Masterdata

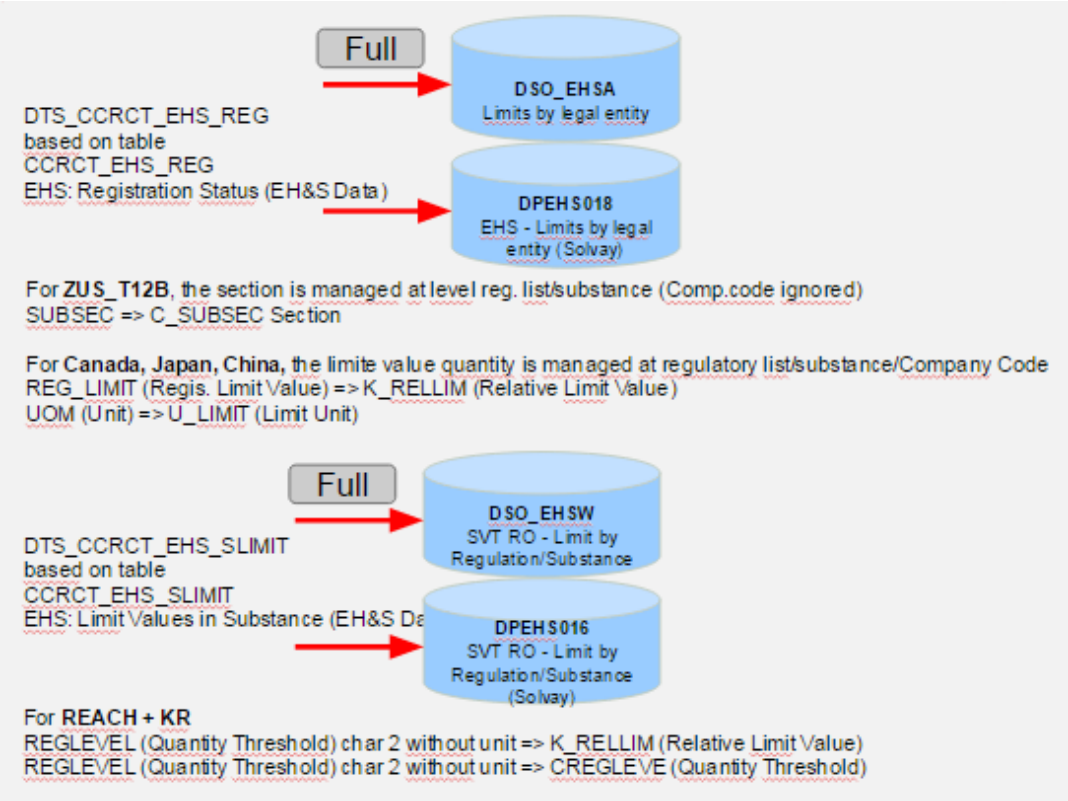
Caution :

- the text transfo + DTP was created in WBP directly in 01.2014
- the C_USAGEJP Attr is loaded with masterdata but it need to be loaded after DSO (=> better to change PCH, attributs are loading the following week)
- the C_USAGEJP Text is not automatic (=> better to be added in PCH)

Steps for to reload historical for a yea r :

- delete values for year to reload in DSOs manualy. Do not use the Abap program which is based on others Global Filters variables
- change Global Filter C_GLBFILT with year to reload
- load DSOs
- change Global Filter C_GLBFILT to set historical load inactive
- Load masterdata C_USAGEJP attributs & texts

Registered Volums, Tonnage Bands, TSCA Section



Algorithm in place for North America (DSO DBEHS012/DBEHS011)

Step1 = search in EHSA with Reg/Substance (one access only)

-> flow year have to be into validity interval

-> store k_rellim into k_limqty (with unit / conversion possible) + u_limit into u_limit

-> store c_subsec into c_subsec

Set 2= search in EHSW with Reg/Substance

For all record with same Reg/Substance/Company Code

-> flow year have to be into validity interval

-> if 1st record store cregleve into c_thrhld

-> if 2nd or more and if cregleve > than previous cregleve, store new cregleve into c_thrhld

If c_thrhld is not initial and c_thrhld exist in masterdata :

-> store master data k_uppqty to k_limqty + u_limit into u_limit

Step 2 possible pour North America ?

Algorithm in place for Europe : (DSO DBEHS010 / DBEHS009)

Search in EHSW with Reg/Substance/Company Code

For all record with same Reg/Substance/Company Code

-> flow year have to be into validity interval

-> if 1st record store cregleve into c_thrhld

-> if 2nd or more and if cregleve > than previous cregleve, store new cregleve into c_thrhld

If c_thrhld is not initial and c_thrhld exist in masterdata :

-> store master data k_uppqty to k_limqty + u_limit into u_limit

Algorithm in place forAsia :(DSO DSO_EHSU / DBEHS006)

-> Case regulatory ZCN_NEW_CH' or 'ZJP_ISHL' or 'ZJP_CSCL'

search in EHSA with Reg/Substance (one access only)
store k_rellim into k_rellim (Relative Limit Value / no unit)
store c_regstat into c_regstat (Regulation/Notfication Status)
-> Case regulatory ZTR_CICR
store 1 into k_rellim (Relative Limit Value / no unit)
search in EHSA with Reg/Substance (one access only)
store c_regstat into c_regstat (Regulation/Notfication Status)
store c_rstat into c_rstat (Registration Status)
-> Case regulatory 'ZKR_NEW' or 'ZKR_DESIGN'

Search in EHSW with Reg/Substance
If k_rellim exists in masterdata c_thrhld-> store master data k_uppqty to k_rellim + c_thrhld

Report by report, which object is used?

- Reports for Japan => K_rellim is used (EHS_REG)
- Reports for Korea => C_thrhld is used (EHS_SLIMIT)
- Reports for China => none used
- Report for Turkey => C_thrhld is used but not filled for TR. Should we take the k_rellim ?
- Report for Europe => C_thrhld is used (EHS_SLIMIT)
- Report for US => none used
- Report for Canada => Report non DSL => C_thrhld is used => but shouldn't we take the k_limqty converted in KG (EHS_REG) ?

Object by objects, in with reports are they used?

- C_THRHLD Threshold Limit = Tonnage band (with text) from EHS_SLIMIT

  => For REACH + KOREA + NA (but real case?)

- K_LIMQTY Limit Quantity (with unit) from EHS_REG or upper value of Tonnage band

  => for Canada, REACH,

- K_RELLIM Relative Limit Value (without unit) from EHS_REG / Constant / EHS_SLIMIT

  => for ASIA and TR

MasterData Threshold Limit (C_THRHLD) & Attributs and descriptions

Attributs were loaded from a flat file (by Jonathan in mai 2014)

Text were filled manually for Asia, and Reach.

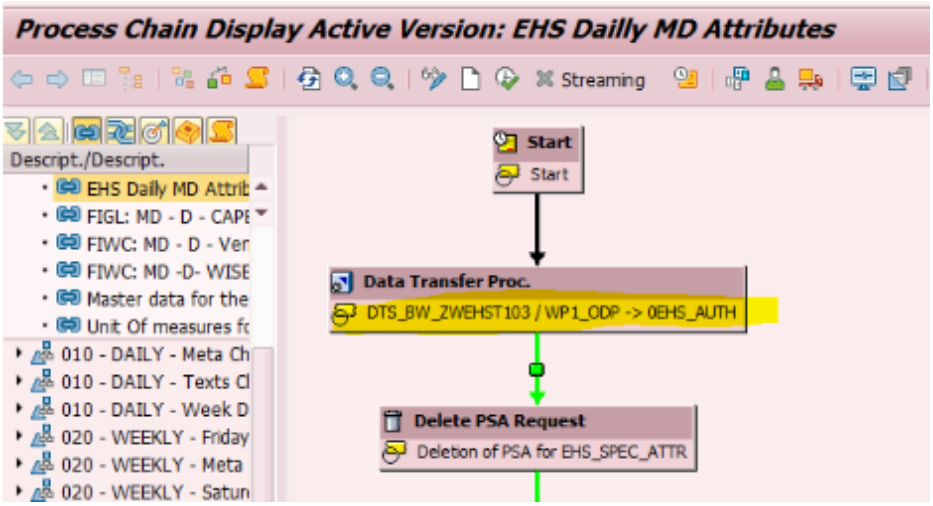
Tonnage band alert

PO2 authorization scope:

For Power Of Two project, the scope by authorization group was recovered from table ZWEHST103 in WP1 system.

In master data 0EHS_AUTH (Authorization group) two attributes are added: CPFCTR1_2 (GBU) and C_AUTHMA (Scope).

Then in the transformation linked to 0EHS_SPEC a lookup is done with 0EHS_AUTH to take the GBU and C_AUTHMA associated (loading done in process chain "EHS_MASTER_DATA"):



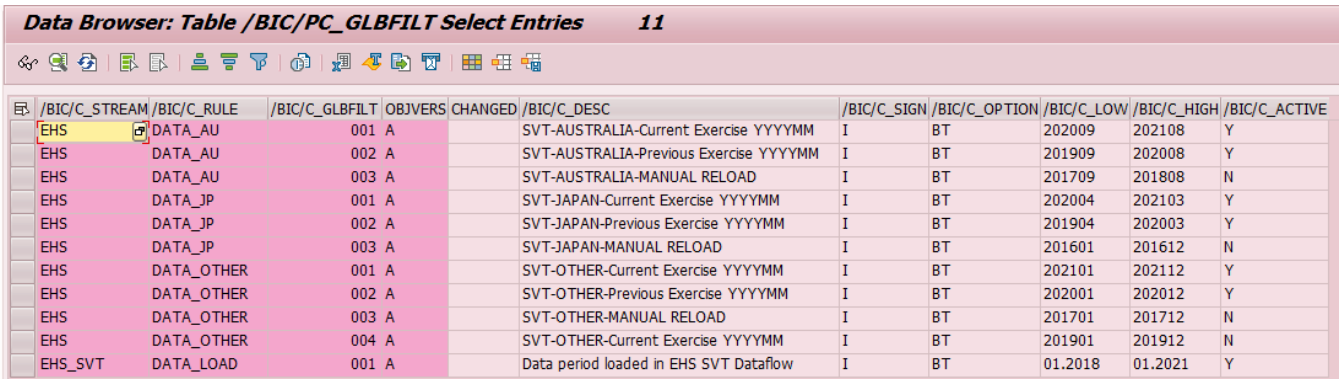
Then in EHS queries, we can use the C_AUTHMA to segregate at authorization level between ECO and SCO data.

ABAP programs & functions

ZBW_EHS001 - EHS - SVT - Selective Deletion on DPEHS006 Based on year

This program deletes data on DSOs and ADSO identified (not necessarily on DPEHS006 - program's text should be changed) in the selection criterium.

It deletes data regarding the variables values in the Global Filter (C_GLBFILT) for Stream EHS, and Rule DATA* for old dataflow, or for new dataflow Stream EHS_SVT Rule DATA_LOAD.



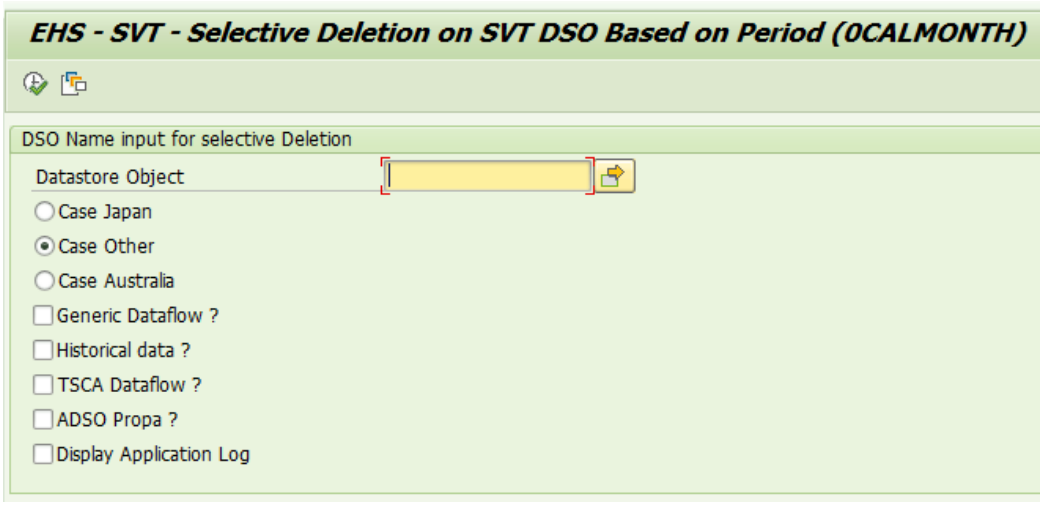
/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFILT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE
EHS	DATA_AU	001	A		SVT-AUSTRALIA-Current Exercise YYYYMM	I	BT	202009	202108	Y
EHS	DATA_AU	002	A		SVT-AUSTRALIA-Previous Exercise YYYYMM	I	BT	201909	202008	Y
EHS	DATA_AU	003	A		SVT-AUSTRALIA-MANUAL RELOAD	I	BT	201709	201808	N
EHS	DATA_JP	001	A		SVT-JAPAN-Current Exercise YYYYMM	I	BT	202004	202103	Y
EHS	DATA_JP	002	A		SVT-JAPAN-Previous Exercise YYYYMM	I	BT	201904	202003	Y
EHS	DATA_JP	003	A		SVT-JAPAN-MANUAL RELOAD	I	BT	201601	201612	N
EHS	DATA_OTHER	001	A		SVT-OTHER-Current Exercise YYYYMM	I	BT	202101	202112	Y
EHS	DATA_OTHER	002	A		SVT-OTHER-Previous Exercise YYYYMM	I	BT	202001	202012	Y
EHS	DATA_OTHER	003	A		SVT-OTHER-MANUAL RELOAD	I	BT	201701	201712	N
EHS	DATA_OTHER	004	A		SVT-OTHER-Current Exercise YYYYMM	I	BT	201901	201912	N
EHS_SVT	DATA_LOAD	001	A		Data period loaded in EHS SVT Dataflow	I	BT	01.2018	01.2021	Y

This program is used in the main process chain with following variants

Variant name	Short Description
GEN_RHODIA	Deletion for Rhodia (Gen Flow)
GEN_RHODIA_BUS	Deletion Rhodia Business (Gen)
GEN_RHODIA_PRP	Deletion Rhodia Propa (Gen)
GEN_SOLVAY	Deletion for Solvay (Gen Flow)
GEN_SOLVAY_BUS	Deletion Solvay Business (Gen)
GEN_SOLVAY_PRP	Deletion Solvay Propa (Gen)
RHODIA_AU	Deletion for Japan (Rhodia)
RHODIA_JP	Deletion for Japan (Rhodia)
RHODIA_OTHERS	Deletion for Others (Rhodia)
RHODIA_US	Deletion for US (Rhodia)

SOLVAY_JP	Deletion for Solvay (Solvay)
SOLVAY_OTHERS	Deletion for Others (Solvay)
SOLVAY_US	Deletion for US (Solvay)

At execution, on selection screen, we choose data to delete: Japan, Australia or other.



If it concerns new dataflow, "Generic Dataflow ?" should be selected.

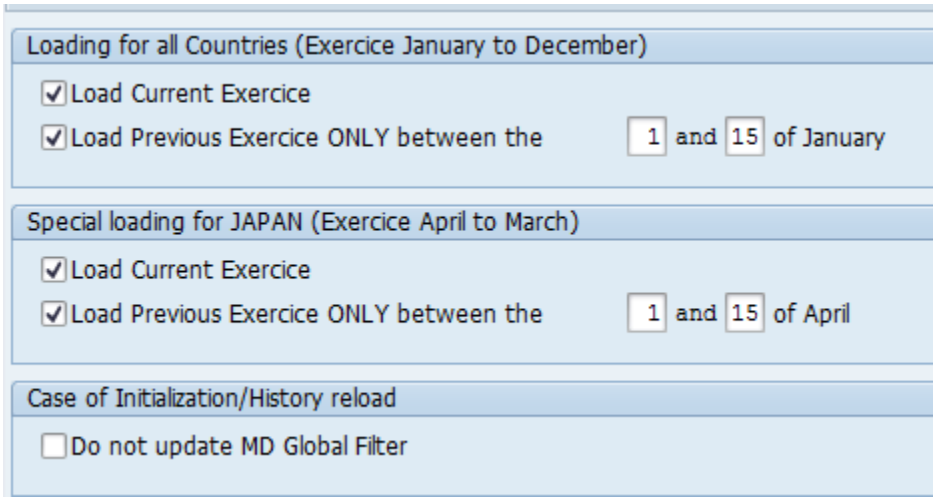
It it concerns TSCA dataflow, used in a specific process chains (PC_EHS_SVT_GENFLW_TSCA, PC_EHS_SVT_OLD_FLW_TSCA), "TSCA dataflow must be selected.

It it concerns ADSO of propagation layer, "ADSO Propa" must be selected.

ZBW_EHS002 EHS-SVT Determination of time intervals for loadings

This program updates variables in the Global Filter (C_GLBFILT) for Stream EHS, and Rule DATA*

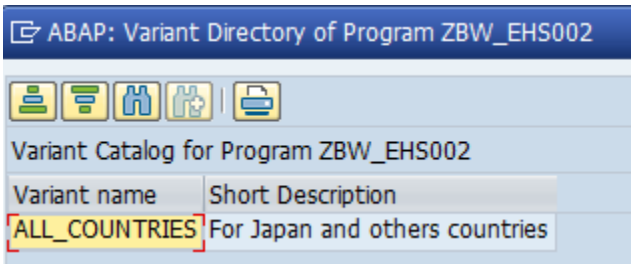
The intervals of months are determined using the current date (SY-DATUM).



Notice that if variable exist in C_GLBFILT but is not checked in the program, the variable will be updated to inactive (attribute C_ACTIVE changed to 'N').

Caution : if the option 'Do not update MD Global Filter' is set, values will have to be modified manually in the masterdata when changing year

This program is used in the main process chain with following variants



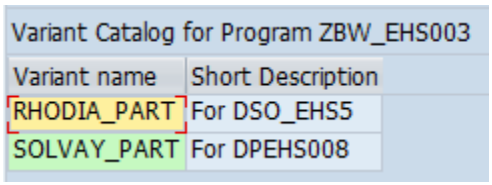
This program is not used on generic dataflow

ZBW_EHS003 - EHS - SVT - Selective Deletion on DPEHS008 and DSO_EHS5 about compositions data based on current year

This program deletes data in business DSOs identified in the selection criterium.

It deletes data regarding the current year based on actual date (sy-datum).

This program is used in the main process chain with following variants:



This program is not used on generic dataflow

ZBW_EHS001_GET_COMPOSITION - Get Composition Data

This function is used in transformation loading DSO_EHSR (for RCS) and DBEHS005 (for Solvay) which are Flow data with compositions

It read the composition/regulatory list from DSOs DPEHS00800 (for Solvay) or DSO_EHS5 (for RCS)

Import parameters :

- Material (C_MATNR2)
- Calendar Year (CALYEAR)
- Country key (COUNTRY)
- Source System (LOGSYS)

This program is not used on generic dataflow

Dependencies with other applications

EHS SVT is adding EHS information on transactional data : Purchasing (Application SPRINT), Production, Sales (OBAS)

Data loadings

Info providers and objects loaded

Main Chains

Process Chain	Code	Type	Frequency	Comments
EHS - META - Weekly - SVT 01.00	PC_EHS_SVT_001	MAIN	• launched by direct scheduling • ~~Twice a week: on wednesday and on saturday, at 10 H.~~ • Daily at 5am.	Decision tree used to determinate: ▪ If wednesday: execute only PC_EHS_005 ▪ If saturday: execute PC_EHS_005 and then PC_EHS_GENERIC ▪ Description of process chain: https://drive.google.com/file/d/15kxX4YYPQ3LruaOwBraPbw1OPpMpJliGQRL2jFLpbbc/view
~~EHS - Only NA - Master Chain NA~~	~~PC_EHS_NA_001~~	~~MAIN~~	• ~~launched by direct scheduling~~ • ~~Weekly~~ • ~~Wednesday at 9:00am~~ • ~~Whole chain last around 3 hours~~	~~Contains sames blocks than chains EHS of the week but these blocks only concern EHS NA flow~~ No more scheduled. Replaced bu global chain PC_EHS_05
EHS : Generic Properties Loading	PC_EHS_PROPERTIES	MAIN	• launched by direct scheduling • Weekly • Wednesday at 12:00am • Whole chain last around 30 min	Contain the generic EHS properties DSO DPEHS033 & DPEHS034
EHS - TD - SVT - TSCA dataflow - Metachain	PC_EHS_SVT_DAILY_TSCA	MAIN	• Daily at 10H.	Contain subchain PC PC_EHS_SVT_OLD_FLW_TSCA and then PC_EHS_014. Decision tree to execute or not : ▪ Executed on monday, tuesday, thursday or friday.

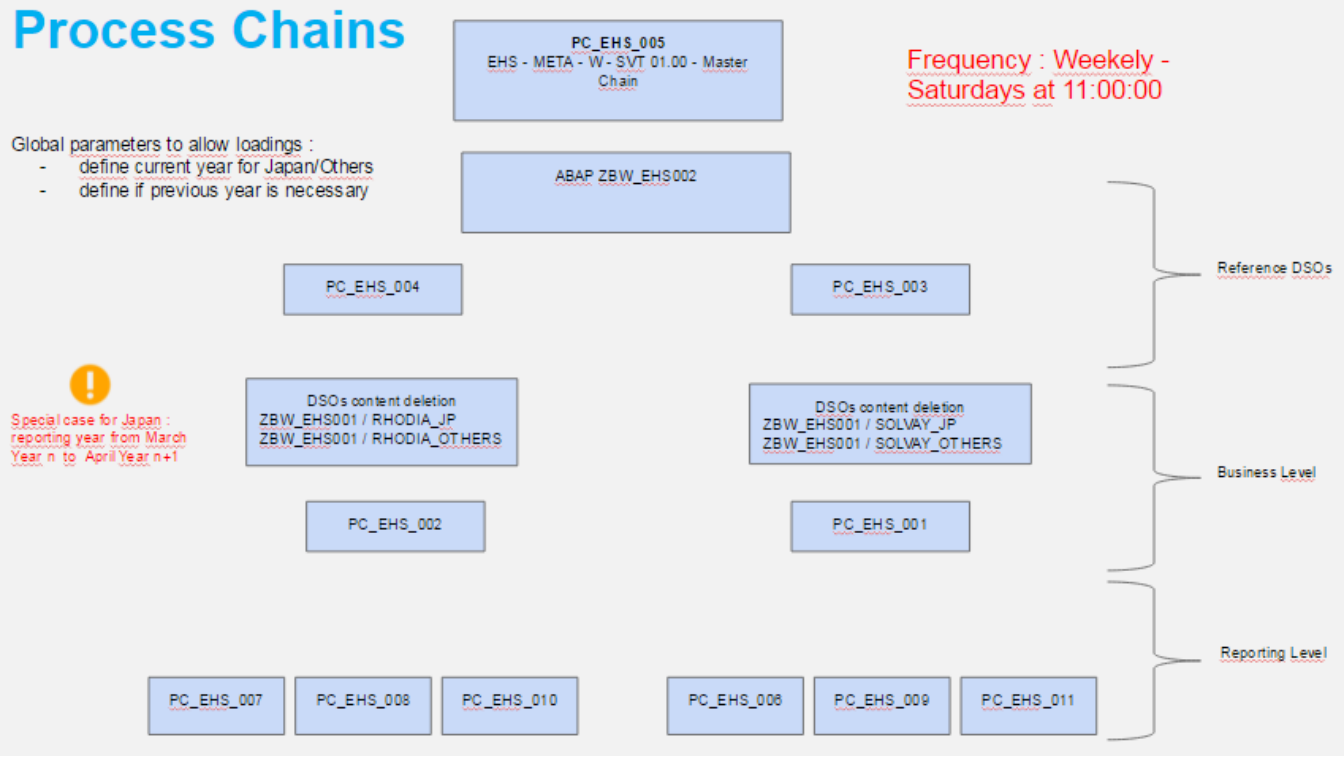
Slave Chains

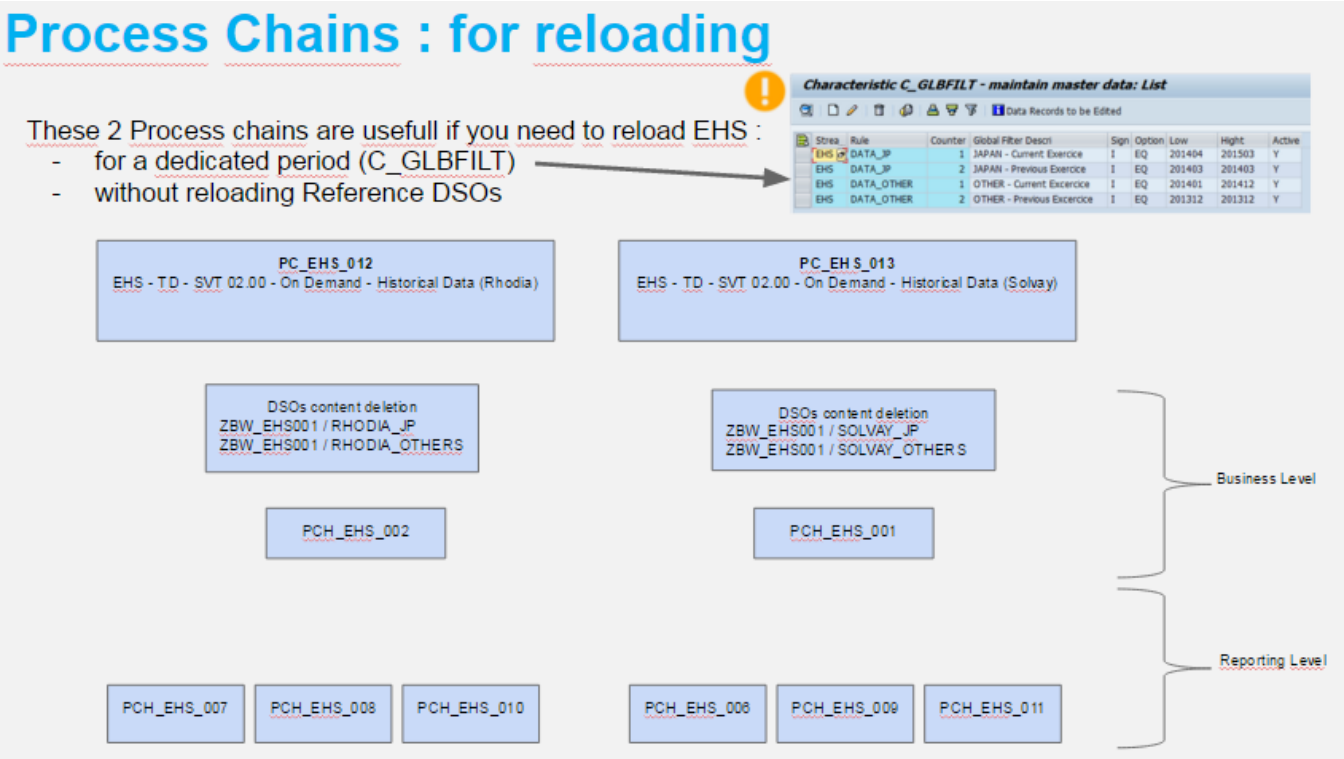
Process Chain	Code	Type	Frequency	Comments
EHS - SVT 01.05 - Master Chain old Dataflow	PC_EHS_005	Sub chain		Triggered by PC_EHS_SVT_001. executed on wednesday and on saturday
SVT Generic Flow (Hana) Process Chain	PC_EHS_GENERIC	Sub chain		Triggered by PC_EHS_SVT_001. executed on saturday.
EHS - MD - W - SVT 01.11 - MD & Reference DSOs (Rhodia)	PC_EHS_004	Sub chain		
EHS - TD - W - SVT 01.21 - Business Layer (Rhodia)	PC_EHS_002	Sub chain		
EHS - TD - W - SVT 01.31 - Reporting Layer AP Area (Rhodia)	PC_EHS_007	Sub chain		
EHS - TD - W - SVT 01.41 - Reporting Layer EU Area (Rhodia)	PC_EHS_008	Sub chain		
EHS - TD - W - SVT 01.51 - Reporting Layer NA Area (Rhodia)	PC_EHS_010	Sub chain		
EHS - MD - W - SVT 01.10 - MD & Reference DSOs (Solvay)	PC_EHS_003	Sub chain		
EHS - TD - W - SVT 01.20 - Business Layer (Solvay)	PC_EHS_001	Sub chain		
EHS - TD - W - SVT 01.30 - Reporting Layer AP Area (Solvay)	PC_EHS_006	Sub chain		
EHS - TD - W - SVT 01.40 - Reporting Layer EU Area (Solvay)	PC_EHS_009	Sub chain		
EHS - TD - W - SVT 01.50 - Reporting Layer NA Area (Solvay)	PC_EHS_011	Sub chain		
EHS - TD - W - SVT 01.61 - BroadCast US	PC_EHS_014	Sub chain		Broadcast Triggered by PC_EHS_005 and PC_EHS_SVT_OLD_FLW_TSCA
EHS - TD - SVT - Old Dataflow TSCA only	PC_EHS_SVT_OLD_FLW_TSCA	Sub chain		
EHS - TD - SVT - Generic Dataflow TSCA only	PC_EHS_SVT_GENFLW_TSCA	Sub chain		Will be used instead of PC_EHS_SVT_OLD_FLW_TSCA in a few weeks

~~EHS - Only NA - MD & Reference DSOs (Solvay)~~	~~PC_EHS_NA_002~~	~~Sub-chain~~		~~Triggered by PC_EHS_NA_001~~. No more used
~~EHS - Only NA - MD & Reference DSOs (Rhodia)~~	~~PC_EHS_NA_003~~	~~Sub-chain~~		~~Triggered by PC_EHS_NA_001~~. No more used
~~EHS - Only NA - Business Layer (Solvay)~~	~~PC_EHS_NA_004~~	~~Sub-chain~~		~~Triggered by PC_EHS_NA_001~~. No more used
~~EHS - Only NA - Business Layer (Rhodia)~~	~~PC_EHS_NA_005~~	~~Sub-chain~~		~~Triggered by PC_EHS_NA_001~~. No more used

Other Chains

Process Chain	Code	Type	Frequency	Comments
EHS - Master Chain Hist Load	PC_EHS_MAIN_HIST_LOAD	ONE SHOT		This chain can be used to reload data without using global filters values, and without reload referentials Dsos Global filters C_GLBFILT : stream EHS / rule DATA*





Loading frequency

The application is done weekly on saturdays at 10 am and wednesday at 10:00am

Average performance

Key Figure	Estimation
~ Average Process Chain Runtime	7 hours as currently 2 years are extracted
~ Average nb of rows loaded per load	
~ Total nb of rows loaded (if full)	
~ Average Runtime for 10k lines	

Record Keeping

Currently data from 2012 to current year

Reporting

Queries End User Documentation

Main queries

For EHS SVT, queries have been developped, but for each query, an analysis workbook has been settled => only one access mode.

All queries/workbooks are published in an unique role menu “EHS – Substance Volume Tracking” (ZR_RCS_CA_M48)

EHS – Substance Volume Tracking			
Ø Asia			
Ø Japan			
	JP Annual reporting of chemicals (Core Query)	QRY	BW_QRY_MPR_EHS07_JP_0001
	JP Annual Reporting (Core Workbook)	WB	BW_WBK_EHS_SVT_JP_001
	JP Annual reporting of SVE/LPN of new chemicals (Core Query)	QRY	BW_QRY_MPR_EHS07_JP_0002
	JP SVE-LPN Annual Reporting (Core Workbook)	WB	BW_WBK_EHS_SVT_JP_002
Ø China			
	CN Registered new chemicals (Core Query)	QRY	BW_QRY_MPR_EHS07_CN_0001
	CN Registered New Chemicals (Core Workbook)	WB	BW_WBK_EHS_SVT_CN_001
	CN Key environmental controlled haz. chemicals (Core Query)	QRY	BW_QRY_MPR_EHS07_CN_0002
	CN KECH Chemicals (Core Workbook)	WB	BW_WBK_EHS_SVT_CN_002
Ø Korea			
	KR Annual reporting of chemicals (Core Query)	QRY	BW_QRY_MPR_EHS07_KR_0001
	KR Annual Reporting (Core Workbook)	WB	BW_WBK_EHS_SVT_KR_001
	KR Registration (Core Query)	QRY	BW_QRY_MPR_EHS07_KR_0002
	KR Registration (Core Workbook)	WB	BW_WBK_EHS_SVT_KR_002
Ø REACH & Turkey			
	EU REACH (Core Query)	QRY	BW_QRY_MPR_EHS07_EU_0001
	EU REACH (Core Workbook)	WB	BW_WBK_EHS_SVT_EU_001
	TR Substances Notification (Core Query)	QRY	BW_QRY_MPR_EHS07_TR_0001
	TR Substances Notification (Core Workbook)	WB	BW_WBK_EHS_SVT_TR_001
Ø North America			
Ø US			
	US TSCA CDR (Core Query)	QRY	BW_QRY_MPR_EHS07_US_0001
	US TSCA CDR (Core Workbook)	WB	BW_WBK_EHS_SVT_US_001
	US TSCA 12b (Core Query)	QRY	BW_QRY_MPR_EHS07_US_0002
	US TSCA 12b (Core Workbook)	WB	BW_WBK_EHS_SVT_US_002
	EHS - Imported Material without Composition (Core query)	QRY	BW_QRY_MPR_EHS02_0005
	EHS - Imports List by Material (Core query)	QRY	BW_QRY_MPR_EHS02_0004
	EHS - Imports list from GTS (Core query)	QRY	BW_QRY_MPR_EHS02_0002
	EHS - Imports List by Substance (Core query)	QRY	BW_QRY_MPR_EHS02_0006
Ø Canada			
	Canada Non DSL Tracking (Core Query)	QRY	BW_QRY_MPR_EHS07_CA_0001
	Canada Non DSL Tracking (Core Workbook)	WB	BW_WBK_EHS_SVT_CA_001
	Extended tracking for Canada (Core Query)	QRY	BW_QRY_MPR_EHS07_CA_0002
	Extended tracking for Canada (Core Workbook)	WB	BW_WBK_EHS_SVT_CA_002

New Query: SVT Report-Notification of nanomaterials Europe (core query) => BW_QRY_MPR_EHS07_EU_0002

NB : Following queries are not yet available as workbook (not part of convergence project), a freshdesk has to be created by the Business Team.

- EHS - Imported Material without Composition (Core query) => BW_QRY_MPR_EHS02_0005
- EHS - Imports List by Material (Core query) => BW_QRY_MPR_EHS02_0004
- EHS - Imports list from GTS (Core query) => BW_QRY_MPR_EHS02_0002
- EHS - Imports List by Substance (Core query) => BW_QRY_MPR_EHS02_0006

All reports have following common filtrers

- Country of Origin (C_CNTRY_O) = autorisation
- Tracking Flag (C_TRCKFLG) = 'Y'
- Component Type Exclusion (C_IMPFLG) = 'N'
- Material Exclusion Flag (C_EXCLUSI) = 'N'
- Chemical reaction <> 0 'NO'

All reports have following condition

- Quantites PRO >= 0

Here are the different filters for each report

		Reg List (C_REG)	Cube (0INFOPROV)	Scenario (C_SCEN)	Others
BW_WBK_EHS_SVT_GENERIC Generic SVT - Substance Level (Core Workbook)	BW_QRY_CPEHSV01_0002 EHS - SVT Generic reporting Query (Core)	All	ABEHSV02, ABE HSV04 (Composite Provider CPEHS V01:)	All	
BW_WBK_EHS_SVT_GENERIC Generic SVT - Product Level (Core Workbook)	BW_QRY_CPEHSV01_0003 EHS - SVT Generic reporting Synthesis Query (Core)	All	ABEHSV02, ABE HSV04 (Composite Provider CPEHS V01:)	All	

BW_WBK_EHS_SVT_CN_001 CN Registered New Chemicals (Core Workbook)	BW_QRY_MPR_EHS07_CN_0001 CN Registered new chemicals (Core Query)	ZCN_NEW_CH	CUB_EHS07, CREHS02	all except PUR	Regulation Code (C_REGCODE) / Type of substance = CN001 + '#'
BW_WBK_EHS_SVT_CN_002 CN KECH Chemicals (Core Workbook)	BW_QRY_MPR_EHS07_CN_0002 CN Key environmental controlled haz. chemicals (Core Query)	ZCN_KECHC	CUB_EHS07, CREHS02	PRO	Regulation Code (C_REGCODE) / Type of subst. = CN002 + '#'
BW_WBK_EHS_SVT_JP_001 JP Annual Reporting (Core Workbook)	BW_QRY_MPR_EHS07_JP_0001 JP Annual reporting of chemicals (Core Query)	ZJP_AN_REP	CREHS01, CUB_EHS06	All excpect PUR	Regulation Code (C_REGCODE) / Type of subst. = JP001, JP002, JP003, #
BW_WBK_EHS_SVT_JP_002 JP SVE-LPN Annual Reporting (Core Workbook)	BW_QRY_MPR_EHS07_JP_0002 JP Annual reporting of SVE/LPN of new chemicals (Core Query)	ZJP_CSCL, ZJP_ISHL	CREHS01, CUB_EHS06	EXP, IMP, PRO, ICI	Regulation Code (C_REGCODE) / Type of subst. = JP004, JP005, JP006, #
BW_WBK_EHS_SVT_KR_001 KR Annual Reporting (Core Workbook)	BW_QRY_MPR_EHS07_KR_0001 KR Annual reporting of chemicals (Core Query)	ZKR_AN_REP	CREHS03, CUB_EHS08	all	Regulation Code (C_REGCODE) / Type of subst. = KR001, KR002, #'
BW_WBK_EHS_SVT_KR_002 KR Registration (Core Workbook)	BW_QRY_MPR_EHS07_KR_0002 KR Registration (Core Query)	ZKR_DESIGN, ZKR_NEW	CREHS03, CUB_EHS08	PRO/ICI/IMP On devrait ajouter le filtre dans qry	Regulation Code (C_REGCODE) / Type of subst. = KR003, KR004, #
BW_WBK_EHS_SVT_TR_001 TR Substances Notification (Core Workbook)	BW_QRY_MPR_EHS07_TR_0001 TR Substances Notification (Core Query)	ZTR_CICR	CUB_EHS07, CREHS02	ICI, SO	Regulation Code (C_REGCODE) / Type of substance = TR001, #
BW_WBK_EHS_SVT_EU_001 EU REACH (Core Workbook)	BW_QRY_MPR_EHS07_EU_0001 EU REACH (Core Query)	REACH	CREHS04, CREHS06	ICI, PRO, IMP	
BW_WBK_EHS_SVT_US_001 US TSCA CDR (Core Workbook)	BW_QRY_MPR_EHS07_US_0001 US TSCA CDR (Core Query)	TSCA	CREHS05, CREHS07	IMP, ICI, PRO, EXP	
BW_WBK_EHS_SVT_US_002 US TSCA 12b (Core Workbook)	BW_QRY_MPR_EHS07_US_0002 US TSCA 12b (Core Query)	ZUS_T12B	CREHS05, CREHS07	EXP	
BW_WBK_EHS_SVT_CA_001 Canada Non DSL Tracking (Core Workbook)	BW_QRY_MPR_EHS07_CA_0001 Canada Non DSL Tracking (Core Query)	ZCA_DSL	CREHS05, CREHS07	IMP, PRO, ICI	Substance <> EXCLUDED
BW_WBK_EHS_SVT_CA_002 Extended tracking for Canada (Core Workbook)	BW_QRY_MPR_EHS07_CA_0002 Extended tracking for Canada (Core Query)	ZCA_SVT	CREHS05, CREHS07	IMP, ICI, PRO	
BW_WBK_EHS_SVT_EU_003 SVT Report-Notification of nanomaterials Europe (core Work book)	BW_QRY_MPR_EHS07_EU_0002 SVT Report-Notification of nanomaterials Europe (core Query)	ZEU_NANO	CREHS04 CREHS06	IMP, ICI, PRO	
BW_WBK_EHS_SVT_AU_001 AU Annual Reporting (Core Workbook)	BW_QRY_MPR_EHS07_AU_0001 AU Annual reporting of chemicals - SO	ZAU_AICS	CREHS08	SO	

	BW_QRY_MPR_EHS07_AU_0002 AU Annual reporting of chemicals - IMP+ICI	ZAU_AICS	CREHS08	ICI, IMP	
	BW_QRY_MPR_EHS07_AU_0003 AU Annual reporting of chemicals - PRO	ZAU_AICS	CREHS08	PRO	
	BW_QRY_MPR_EHS07_AU_0004 AU Annual reporting of chemicals - LOG	ZAU_AICS	CREHS08	ALL	Log_ID = Non initial

Main functionalities

Broadcast

The broadcast are run every Wednesday and Saturday, via the chain PC_EHS_014, which is included in weekly main chain PC_EHS_005(Saturday) and PC_EHS_NA_001 (Wednesday)

For Broadcast diffusion, it has been decided to split broadcast by company code using Bursting option for Broadcast

Link to bursting documentation https://drive.google.com/file/d/1Z8mFBin0YRkm230dpubG3VVvjZ8LzMC2m23ifYgzLVw/view

Availables broadcast

ONLY the US BroadCast is available.

Other broadcasts will be implemented later by BW maintenance team, via freshdesk process.

US Broadcast rules

Aim : hold alert for the first expedition, for a tracked substance, a company code, a destination country within the same year.

Alert limited to :

- regulatory list US_T12B
- scenario EXP
- country of origin US + PR, GU, VI, AS , MP
- country of destination (ship to) diffrent from US = US + PR, GU, VI, AS , MP

Additional rule :

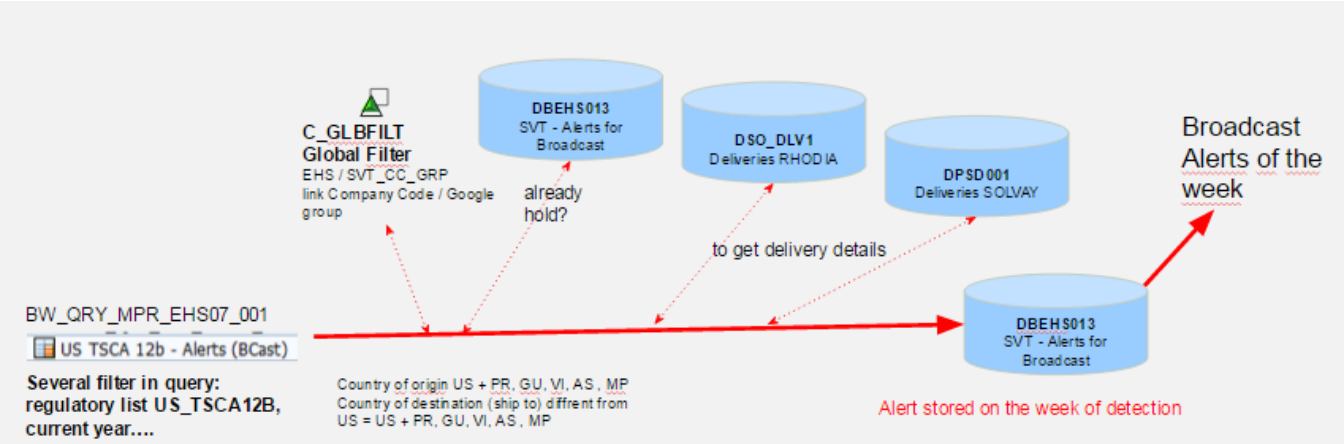
The delivery creation date has to be the same year as goods issue date.

Broadcast solution

The bex query BW_QRY_MPR_EHS07_001 / US TSCA 12b - Alerts (BCast) identify possible alets.

A filter is handle in the DTP to limit the concerned countries for US :

- country of origin US + PR, GU, VI, AS , MP
- country of destination <> US + PR, GU, VI, AS , MP (means the country of the ship-to)



The transformation determines :

- if the alert has already been sent by looking in the DSO DBEHS013 / SVT - Alerts for Broadcast
- the delivery information by looking in Deliveries DSOs (DSO_DLV1 for Rhodia, DPSD001 for Solvay) as we do not have deliverie details in the SVT cubes
- the google group to which the alert has to be send (C_GLBFILT)

Important :

The DSO DBEHS013 contains the already sent alert.
Do not empty it, history can not be reloaded without any flow modifications and alerts will be sent again.

The link company code / google group is stored in MD Global Filter (C_GLBFILT) => see current procedure

The google group email adress are stored in MD Google Group (C_GROUP) => see current procedure

Google groups have been listed by business and are available via following link https://docs.google.com/spreadsheets/d/1jx16HViUFA5CGbLL3rQ3H-eS4VoUVvup/edit?gid=246527073#gid=246527073

The creation of the 11 google groups have been asked to France Infra-servicedesk the 21st of december 2015.

=> but only the first one 'SSP WW' for US is read

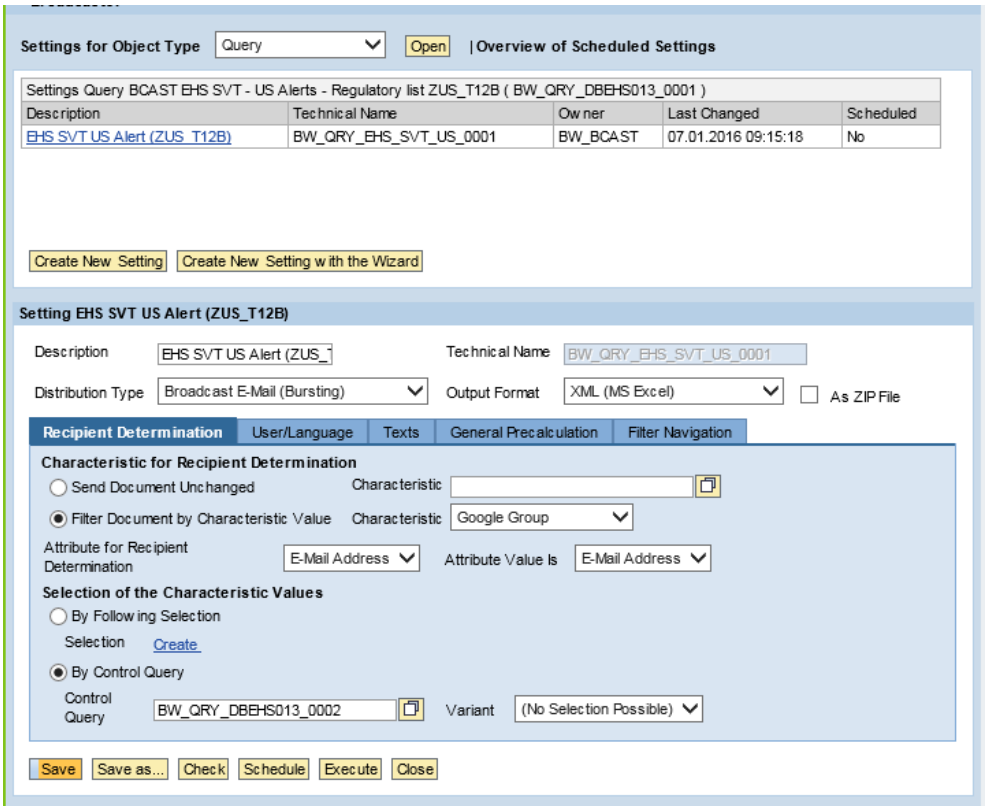
Queries used for broadcast

Country	Broadcast	Query	Query Description	Query Type	Variante prog RSRD_BROADCAST_STARTER
US	BW_QRY_EHS_SVT_US_0001	BW_QRY_DBEHS013_0001	BCAST EHS SVT - US Alerts - Regulatory list ZUS_T12B	Alert	EHS_SVT_US_001 Send EHS SVT Alerts for US
		BW_QRY_DBEHS013_0002	BCAST EHS SVT - US Alerts - Regulatory list ZUS_T12B (Burst)	Destination list (for Bursting option)	

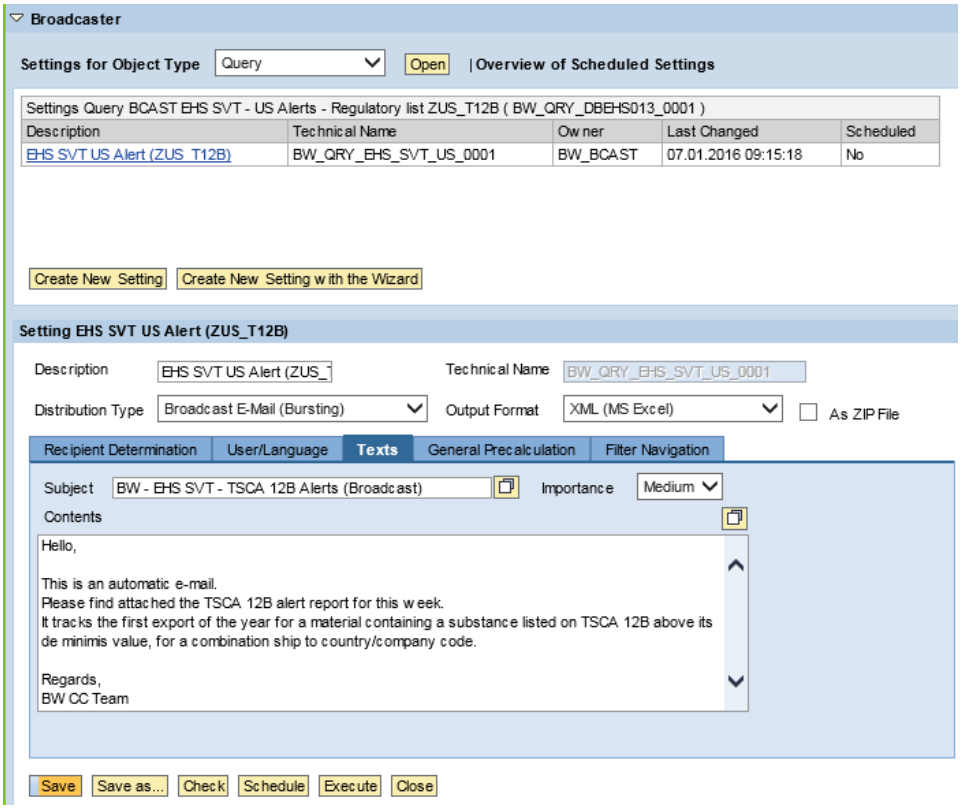
Detail of US Broadcast email

Broadcast with busting option using query BW_QRY_DBEHS013_0002 created for busting purpose and attribut "E-Mail Address" of master data Google Group (C_GROUP)

The alert of the week will be split by google group (C_Group) and sent to the google group address or person address found in C_Group



Content of the email



Other info for futur broadcast

For other broadcast, another rule will be used to define a threshold for each regulatory list.

Stream EHS / Rule SVT_LIMIT : One threshold by regulatory list

To harmonize threshold, all should be set to 80% except Turkey which is 100%

No threshold for reg list ZUS_T12B (threshold = 1st expedition)

Broadcast tonnage band alert

Maintenance

Known bugs

See freshdesk for current bugs and evolutions

Recurring procedure

Reloading Japan & Korean usages

=> see Japan & Korean usage paragraph

Reloading data for a specific year

The chain PC_EHS_MAIN_HIST_LOAD / EHS - Master Chain Hist Load can be used to reload data without using global filters values, and without reload referentials Dsos.

DSOs deletion are included in the chain.

Global filters C_GLBFILT has to be settled previously

=> stream EHS / rule DATA*

Characteristic C_GLBFILT - maintain master data: List

Data Records to be Edited

Stream	Rule	Counter	Global Filter Descri	Sign	Option	Low	Hight	Active
EHS	DATA_JP	1	SVT-JAPAN-Current Exercise YYYYMM	I	BT	201604	201703	Y
EHS	DATA_JP	2	SVT-JAPAN-Previous Exercise YYYYMM	I	BT	201504	201603	Y
EHS	DATA_OTHER	1	SVT-OTHER-Current Exercise YYYYMM	I	BT	201601	201612	Y
EHS	DATA_OTHER	2	SVT-OTHER-Previous Exercise YYYYMM	I	BT	201501	201512	Y

Reloading historical reference for Composition / regulatory list (DSO_EHS5 for Rhodia side / DPEHS008 for Solvay side)

Composition/Regulatory list are not historized by year in system sources RCS nor Solvay (only current situation), whereas in BW we need to freeze the composition by year.

For every loading, we consider that extracted data corresponds to the current year.

caution : this procedure has never been done. "Real" historical composition data can not be re-determine. In case of a reloading you will only use the current composition, and associate it to the wanted year.

If the current compositions have to be applied to a previous year, you have to :

- delete the wanted year in the DSO (in case of a mistake, the "real historical composition can not be re-determined)
- change the global filter for Stream EHS / Rule = wanted DSO
  First line has to be activated with Active = Y
  Second line has to be filled low = wanted year and Active = Y

Characteristic C_GLBFILT - maintain master data: List

Data Records to be Edited

Stream	Rule	Counter	Global Filter Descri	Sign	Option	Low	Hight	Active
EHS	DPEHS008	1	Indicator for Historical Reload	I	EQ	Y		N
EHS	DPEHS008	2	Year to load	I	EQ	2015		N
EHS	DSO_EHS5	1	Indicator for Historical Reload	I	EQ	Y		N
EHS	DSO_EHS5	2	Year to load	I	EQ	2015		N

- Run IP and DTP to load the wanted DSO
- Do not forget to change the global filter afterwards
  First line has to be desactivated with Active = N
  Second line has to be desactivated also with Active = N

Broadcast

If you need to add/change a google group for existing broadcast :

Enter/Modify

- google group id
- google group email

C_Group : Google Group (BCast SVT)

This masterdata is used to store Google Group / E-mail adresse

Caution : only Solvay email addresses

Characteristic C_GROUP - maintain master data: List

Data Records to be Edited

Google Gro	L	E-Mail Address	Short Description
US_0001	EN	MARC.FELDMAN@SOLVAY.COM	Marc Feldman
US_0002	EN	BARBARA.PLATT@SOLVAY.COM	Barbara Platt
US_0003	EN	EHS-SVT-SSP-WW@solvay.com	SSP WW

If you need to add/change link company code/google group :

Enter/Modify

- stream EHS
- rule SVT_CC_GRP

C_GLBFILT : (Global Filter)

Low contains CompanyCode\source system,\regulatory list

example 4290\PF1_020\ZUS_T12B

High contains the corresponding google group id

Legal Entities identified for 2015

Strea	Rule	Counter	Global Filter Descri	Sign	Option	Low	Hight	Active
EHS	SVT_CC_GRP	1	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	4290\PF1_020\ZUS_T12B	US_0001	Y
EHS	SVT_CC_GRP	2	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	3384\PF1_020\ZUS_T12B	US_0001	Y
EHS	SVT_CC_GRP	3	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	6283\WP1_400\ZUS_T12B	US_0002	Y
EHS	SVT_CC_GRP	4	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	7424\WP1_400\ZUS_T12B	US_0002	Y
EHS	SVT_CC_GRP	5	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	5782\PF1_020\ZUS_T12B	US_0003	Y

Legal Entities added in 2016 - UR 343945 - add 6062 / ZFR3 - added the 20/01/2016, so applied for 2016 alerts only

Strea...	Rule	Counter	Global Filter Descri	Sign	Option	Low	Hight	Active
EHS	SVT_CC_GRP	6	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	ZFR3\WP1_400\ZUS_T12B	US_0002	Y
EHS	SVT_CC_GRP	7	Bcast SVT - Transco CompCod/SourcSyst/RegList vs GoogleGrp	I	EQ	6062\WP1_400\ZUS_T12B	US_0002	Y

Planned Evolution

Broadcast for other countriies

See also freshdesk for other evolutions