

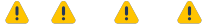
# BW Industrial - EHS SVT (WBP) /\ Obsolete /\



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 fit 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-EPL\\_6Z3QvA0CVoGHzbVJHKwEO0/view](https://drive.google.com/file/d/1APiNeBsXh3SRr4FM-EPL_6Z3QvA0CVoGHzbVJHKwEO0/view)

2015 - SVT Roll Out Europe/USA/Canada => KT document "EHS-SVT-Documentation" => [https://drive.google.com/file/d/1-JtKS1GfXEcolDG7yVwOLv948sqf9KXf9fJHvLu\\_AE0/view](https://drive.google.com/file/d/1-JtKS1GfXEcolDG7yVwOLv948sqf9KXf9fJHvLu_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](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 deploiment US/CA/EU) : [https://drive.google.com/file/d/1APiNeBsXh3SRr4FM-EPL\\_6Z3QvA0CVoGHzbVJHKwEO0/view](https://drive.google.com/file/d/1APiNeBsXh3SRr4FM-EPL_6Z3QvA0CVoGHzbVJHKwEO0/view)

## Roles & Access

### Roles and access

| Role Code              | Role Description                                                     | Explanation                                                                                                                                                                                                                                                                                                                                         |
|------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZR_RC<br>S_EHS<br>_A07 | EHS – Substance<br>Volume Tracking<br>Application - End User<br>Role | Role menu / Based on authorization object ZBI_SVT<br><br><u>Caution:</u> ZBI_SVT gives access to all C_PLANT including BUTA (CC ZFR9). As the roles were 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_RC<br>S_CA_<br>M48  | EHS – Substance<br>Volume Tracking                                   | Role menu which gives acces to all workbooks.                                                                                                                                                                                                                                                                                                       |
| ZBI_JP<br>_EHS_<br>P06 | EHS – Substance<br>Volume Tracking Japan                             | Role perimeter / Based on authorization object ZJPEHSP06 / Country JP                                                                                                                                                                                                                                                                               |
| ZBI_K<br>R_EHS<br>_P06 | EHS – Substance<br>Volume Tracking<br>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<br><br>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 criteria

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\\_pvH0KQU64qh5l](https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5l)

## 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 |

The dataflow is in the following document : EHS-SVT-Dokumentation [https://drive.google.com/file/d/1-JtKS1GfXEcolG7yVwOLv948sqf9KXf9fJHvLu\\_AE0/view](https://drive.google.com/file/d/1-JtKS1GfXEcolG7yVwOLv948sqf9KXf9fJHvLu_AE0/view)

**Global Supply Chain Simulation**

**Virtual layer**

**Reporting layer**

**Business layer**

**Propag. layer**

**USA (existing for Rhodia)**

**USA (new reports)**

**Canada**

**REACH**

**China**

**Turkey**

**Japan**

**South Korea**

**Link to technical doc**

**Scenario determination**

**Production calculation (Solvay)**

**Component types exclusion**

**Inter-company import**

**Regulation type identification (WP1)**

**Registered volumes - TSCA Section**

**Chemical Reaction - Z\_EHS\_CHEM\_REAC**

**Material exclusion**

**Material alignment**

**Composition/regulatory list**

**PUR, IMP**

**SO, EXP, LR**

**ICI**

**PRO**

**Neutralized Production**

**Outbound deliveries**

**Inter-company imports**

**Purchase orders**

**Deliveries**

**Acquisition layer**

**Production**

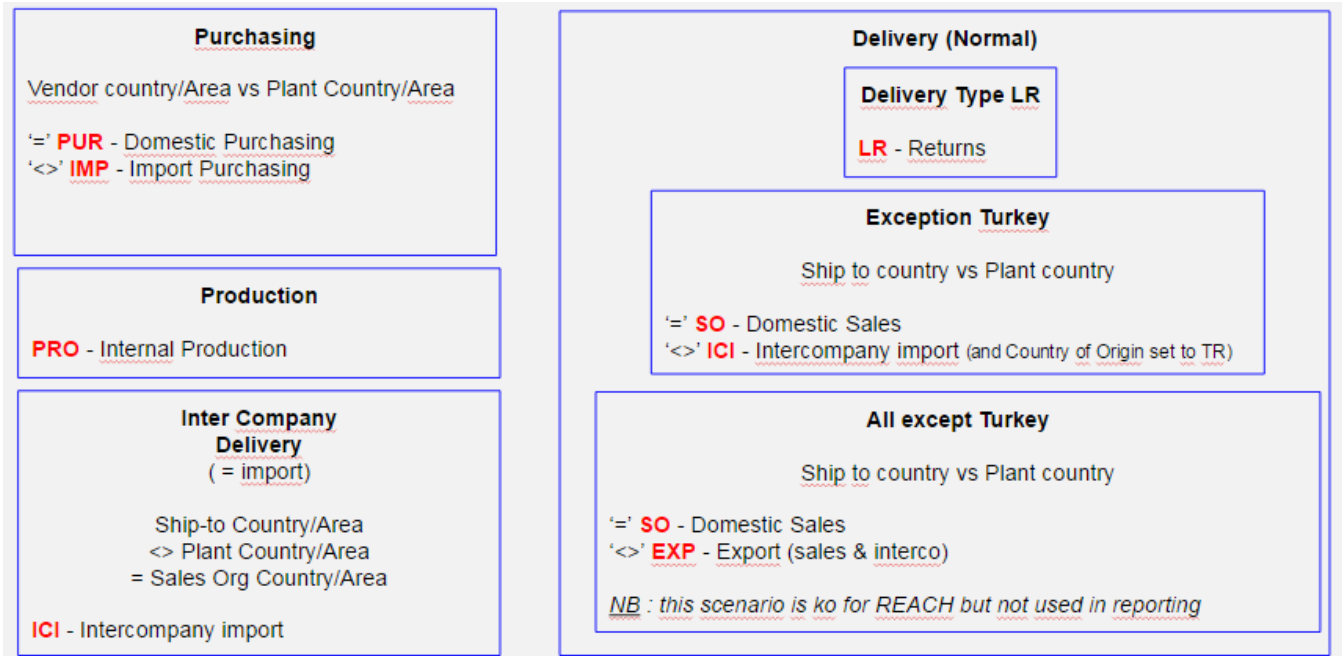
**Material movements**

**RCS WP1**

**ERP PFT**

## Generic dataflow





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<br><br>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<br><br>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<br><br>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\_GLBFLT (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))

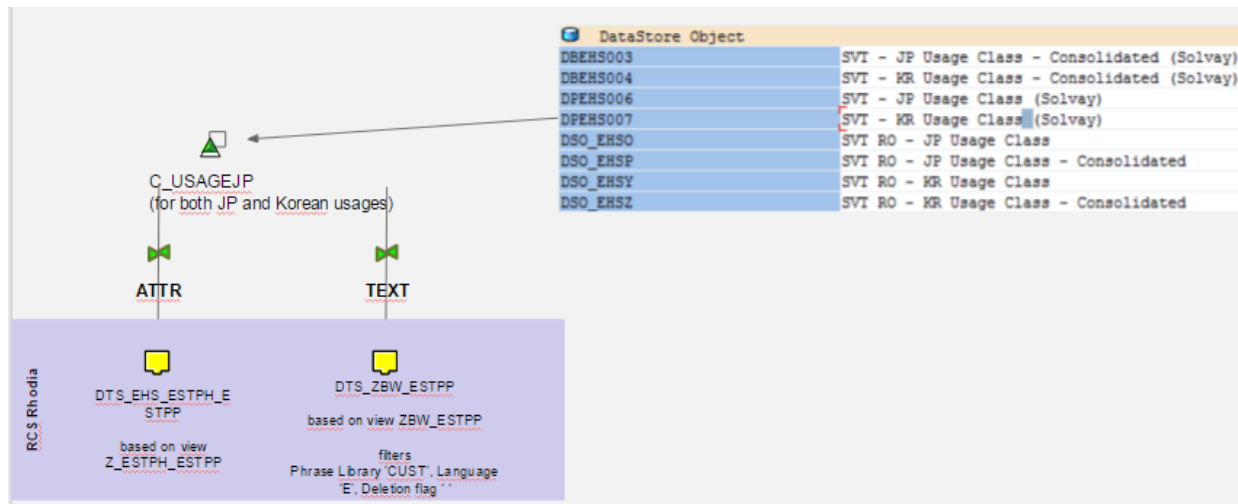
For manual loadings, outside of current loading: be careful with large extraction on those loadings, job can use a lot of memories on the system and generate locks and dumps.

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 :

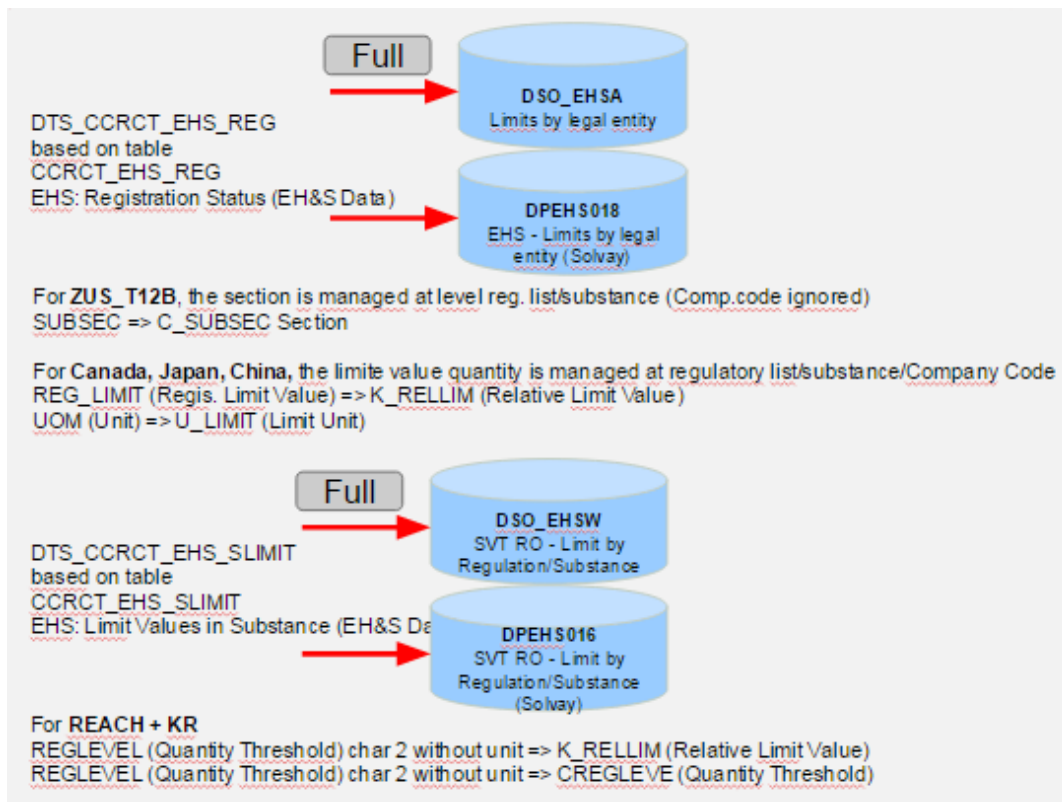
- the text transfo + DTP was created in WBP directly in 01.2014
- the C\_USAGEJP Attr is loaded with masterdata but it need to be loaded after DSO (=> better to change PCH, attributs are loading the following week)
- the C\_USAGEJP Text is not automatic (=> better to be added in PCH)

Steps for to reload historical for a year :

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

## Registered Volumes, 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\_thrld
- > if 2nd or more and if cregleve > than previous cregleve, store new cregleve into c\_thrld

If c\_thrld is not initial and c\_thrld 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\_thrld
- > if 2nd or more and if cregleve > than previous cregleve, store new cregleve into c\_thrld

If c\_thrld is not initial and c\_thrld exist in masterdata :

- > store master data k\_uppqty to k\_limqty + u\_limit into u\_limit

### Algorithm in place for Asia :(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/Notification 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/Notification 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\_thrld-> store master data k\_upqty to k\_rellim + c\_thrld

### Report by report, which object is used?

- Reports for Japan => K\_rellim is used (EHS\_REG)
- Reports for Korea => C\_thrld is used (EHS\_SLIMIT)
- Reports for China => none used
- Report for Turkey => C\_thrld is used but not filled for TR. Should we take the k\_rellim ?
- Report for Europe => C\_thrld is used (EHS\_SLIMIT)
- Report for US => none used
- Report for Canada => Report non DSL => C\_thrld 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\_THRHD 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\_THRHD) & Attributs and descriptions

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

Text were filled manually for Asia, and Reach.

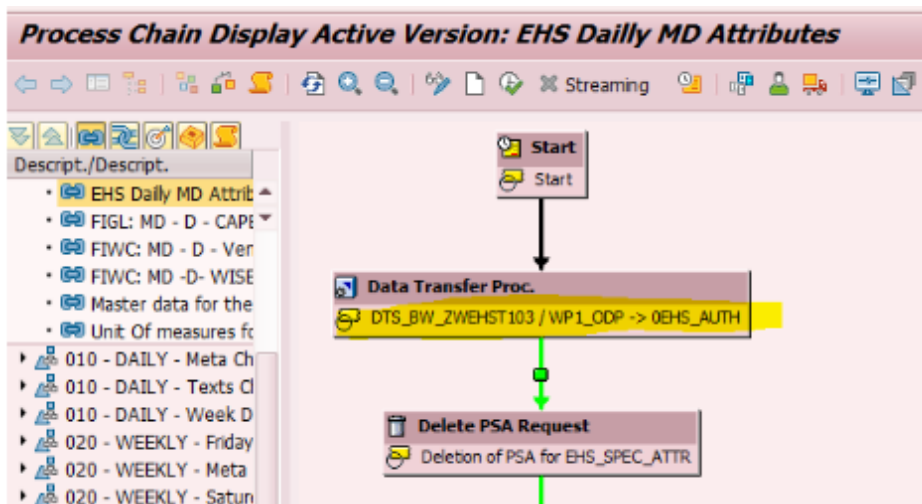
### Tonnage band alert

### 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\_GLBFLT) for Stream EHS, and Rule DATA\* for old dataflow, or for new dataflow Stream EHS\_SVT Rule DATA\_LOAD.

| Data Browser: Table /BIC/PC_GLBFLT Select Entries 11 |             |               |         |         |                                        |             |               |            |             |               |
|------------------------------------------------------|-------------|---------------|---------|---------|----------------------------------------|-------------|---------------|------------|-------------|---------------|
| /BIC/C_STREAM                                        | /BIC/C_RULE | /BIC/C_GLBFLT | 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.

**EHS - SVT - Selective Deletion on SVT DSO Based on Period (0CALMONTH)**

DSO Name input for selective Deletion

Datastore Object

☐ Case Japan

☒ Case Other

☐ Case Australia

☐ Generic Dataflow ?

☐ Historical data ?

☐ TSCA Dataflow ?

☐ ADSO Propa ?

☐ Display Application Log

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

If 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.

If 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\_GLBFLT) for Stream EHS, and Rule DATA\*

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

**Loading for all Countries (Exercise January to December)**

☒ Load Current Exercise

☒ Load Previous Exercise ONLY between the  and  of January

**Special loading for JAPAN (Exercise April to March)**

☒ Load Current Exercise

☒ Load Previous Exercise ONLY between the  and  of April

**Case of Initialization/History reload**

☐ Do not update MD Global Filter

Notice that if variable exist in C\_GLBFLT 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

| ABAP: Variant Directory of Program ZBW_EHS002                                     |                                |
|-----------------------------------------------------------------------------------|--------------------------------|
|  |                                |
| Variant Catalog for Program ZBW_EHS002                                            |                                |
| Variant name                                                                      | Short Description              |
| ALL_COUNTRIES                                                                     | For Japan and others countries |

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:

| Variant Catalog for Program ZBW_EHS003 |                   |
|----------------------------------------|-------------------|
| Variant name                           | Short Description |
| RHODIA_PART                            | For DSO_EHS5      |
| SOLVAY_PART                            | For DPEHS008      |

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 | <ul style="list-style-type: none"> <li>launched by direct scheduling</li> <li><del>Twice a week: on wednesday and on saturday, at 10 H.</del></li> <li>Daily at 5am.</li> </ul>                                   | Decision tree used to determinate: <ul style="list-style-type: none"> <li>If wednesday: execute only PC_EHS_005</li> <li>If saturday: execute PC_EHS_005 and then PC_EHS_GENERIC</li> <li>Description of process chain:</li> </ul> <a href="https://drive.google.com/file/d/15kxX4YYPQ3LruaOwBraPbw1OPpMpJliGQRL2jFLpbbc/view">https://drive.google.com/file/d/15kxX4YYPQ3LruaOwBraPbw1OPpMpJliGQRL2jFLpbbc/view</a> |
| <del>EHS - Only NA - Master Chain NA</del> | PC_EHS_NA_001         | MAIN | <ul style="list-style-type: none"> <li><del>launched by direct scheduling</del></li> <li><del>Weekly</del></li> <li><del>Wednesday at 9:00am</del></li> <li><del>Whole chain last around 3 hours</del></li> </ul> | <del>Contains same blocks than chains EHS of the week but these blocks only concern EHS NA flow</del><br><br>No more scheduled. Replaced by global chain PC_EHS_05                                                                                                                                                                                                                                                   |
| EHS : Generic Properties Loading           | PC_EHS_PROPERTIES     | MAIN | <ul style="list-style-type: none"> <li>launched by direct scheduling</li> <li>Weekly</li> <li>Wednesday at 12:00am</li> <li>Whole chain last around 30 min</li> </ul>                                             | Contain the generic EHS properties<br><br>DSO DPEHS033 & DPEHS034                                                                                                                                                                                                                                                                                                                                                    |
| EHS - TD - SVT - TSCA dataflow - Metachain | PC_EHS_SVT_DAILY_TSCA | MAIN | <ul style="list-style-type: none"> <li>Daily at 10H.</li> </ul>                                                                                                                                                   | Contain subchain PC PC_EHS_SVT_OLD_FLW_TSCA and then PC_EHS_014.<br><br>Decision tree to execute or not : <ul style="list-style-type: none"> <li>Executed on monday, tuesday, thursday or friday.</li> </ul>                                                                                                                                                                                                         |

## 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<br><br>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<br>Global filters C_GLBFLT : stream EHS / rule DATA* |
|                              |                       |          |           |                                                                                                                                                                      |
|                              |                       |          |           |                                                                                                                                                                      |

## Process Chains

Global parameters to allow loadings :

- define current year for Japan/Others
- define if previous year is necessary

**!**  
Special case for Japan :  
reporting year from March  
Year n to April Year n+1

**PC\_EHS\_005**  
EHS - META - W - SVT 01.00 - Master Chain

ABAP ZBW\_EHS002

PC\_EHS\_004

DSOs content deletion  
ZBW\_EHS001 / RHODIA\_JP  
ZBW\_EHS001 / RHODIA\_OTHERS

PC\_EHS\_002

PC\_EHS\_007   PC\_EHS\_008   PC\_EHS\_010

PC\_EHS\_003

DSOs content deletion  
ZBW\_EHS001 / SOLVAY\_JP  
ZBW\_EHS001 / SOLVAY\_OTHERS

PC\_EHS\_001

PC\_EHS\_006   PC\_EHS\_009   PC\_EHS\_011

**Frequency : Weekly -  
Saturdays at 11:00:00**

Reference DSOs

Business Level

Reporting Level

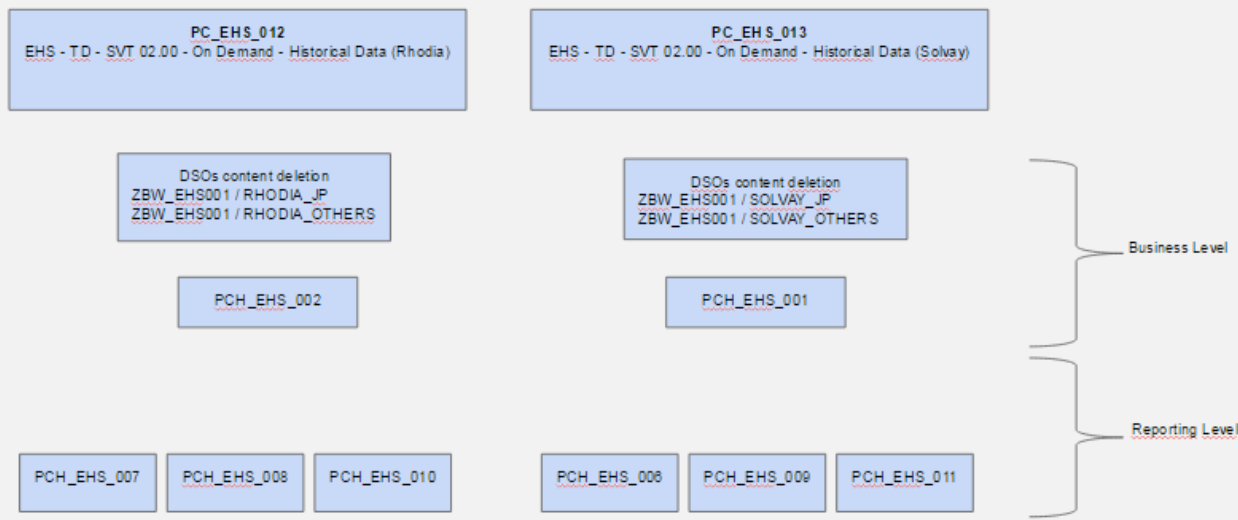
# Process Chains : for reloading

These 2 Process chains are usefull if you need to reload EHS :

- for a dedicated period (C\_GLBFLT)
- without reloading Reference DSOs

Characteristic C\_GLBFLT - maintain master data: List

| Stress | Rule       | Counter | Global Filter Descr       | Sign | Option | Low    | High   | Active |
|--------|------------|---------|---------------------------|------|--------|--------|--------|--------|
| EHS    | DATA_JP    | 1       | JAPAN - Current Exercise  | 1    | EQ     | 201404 | 201503 | Y      |
| EHS    | DATA_JP    | 2       | JAPAN - Previous Exercise | 1    | EQ     | 201403 | 201403 | Y      |
| EHS    | DATA_OTHER | 1       | OTHER - Current Exercise  | 1    | EQ     | 201401 | 201412 | Y      |
| EHS    | DATA_OTHER | 2       | OTHER - Previous Exercise | 1    | EQ     | 201312 | 201312 | Y      |



## 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 |  |                                                              |     |                          |
|---------------------------------|--|--------------------------------------------------------------|-----|--------------------------|
| 🌐 Asia                          |  |                                                              |     |                          |
| 🇯🇵 Japan                        |  |                                                              |     |                          |
|                                 |  | JP Annual reporting of chemicals (Core Query)                | GRY | 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) | GRY | BW_QRY_MPR_EHS07_JP_0002 |
|                                 |  | JP SVE-LPN Annual Reporting (Core Workbook)                  | WB  | BW_WBK_EHS_SVT_JP_002    |
| 🇨🇳 China                        |  |                                                              |     |                          |
|                                 |  | CN Registered new chemicals (Core Query)                     | GRY | 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)  | GRY | BW_QRY_MPR_EHS07_CN_0002 |
|                                 |  | CN KECH Chemicals (Core Workbook)                            | WB  | BW_WBK_EHS_SVT_CN_002    |
| 🇰🇷 Korea                        |  |                                                              |     |                          |
|                                 |  | KR Annual reporting of chemicals (Core Query)                | GRY | BW_QRY_MPR_EHS07_KR_0001 |
|                                 |  | KR Annual Reporting (Core Workbook)                          | WB  | BW_WBK_EHS_SVT_KR_001    |
|                                 |  | KR Registration (Core Query)                                 | GRY | BW_QRY_MPR_EHS07_KR_0002 |
|                                 |  | KR Registration (Core Workbook)                              | WB  | BW_WBK_EHS_SVT_KR_002    |
| 🇪🇺 REACH & Turkey               |  |                                                              |     |                          |
|                                 |  | EU REACH (Core Query)                                        | GRY | BW_QRY_MPR_EHS07_EU_0001 |
|                                 |  | EU REACH (Core Workbook)                                     | WB  | BW_WBK_EHS_SVT_EU_001    |
|                                 |  | TR Substances Notification (Core Query)                      | GRY | BW_QRY_MPR_EHS07_TR_0001 |
|                                 |  | TR Substances Notification (Core Workbook)                   | WB  | BW_WBK_EHS_SVT_TR_001    |
| 🇺🇸 North America                |  |                                                              |     |                          |
| 🇺🇸 US                           |  |                                                              |     |                          |
|                                 |  | US TSCA CDR (Core Query)                                     | GRY | BW_QRY_MPR_EHS07_US_0001 |
|                                 |  | US TSCA CDR (Core Workbook)                                  | WB  | BW_WBK_EHS_SVT_US_001    |
|                                 |  | US TSCA 12b (Core Query)                                     | GRY | 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)     | GRY | BW_QRY_MPR_EHS02_0005    |
|                                 |  | EHS - Imports List by Material (Core query)                  | GRY | BW_QRY_MPR_EHS02_0004    |
|                                 |  | EHS - Imports list from GTS (Core query)                     | GRY | BW_QRY_MPR_EHS02_0002    |
|                                 |  | EHS - Imports List by Substance (Core query)                 | GRY | BW_QRY_MPR_EHS02_0006    |
| 🇨🇦 Canada                       |  |                                                              |     |                          |
|                                 |  | Canada Non DSL Tracking (Core Query)                         | GRY | 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)                    | GRY | 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 filters

- 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<br>Generic SVT - Substance Level<br>(Core Workbook) | BW_QRY_CPEHSV01_0002<br>EHS - SVT Generic reporting Query (Core)           | All              | ABEHSV02, ABE HSV04<br><br>(Composite Provider CPEHS V01: ) | All               |        |
| BW_WBK_EHS_SVT_GENERIC<br>Generic SVT - Product Level<br>(Core Workbook)   | BW_QRY_CPEHSV01_0003<br>EHS - SVT Generic reporting Synthesis Query (Core) | All              | ABEHSV02, ABE HSV04<br><br>(Composite Provider CPEHS V01: ) | All               |        |

|                                                                                          |                                                                                          |                     |                    |                                                      |                                                                        |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------|--------------------|------------------------------------------------------|------------------------------------------------------------------------|
| BW_WBK_EHS_SVT_CN_001<br>CN Registered New Chemicals (Core Workbook)                     | BW_QRY_MPR_EHS07_CN_0001<br>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<br>CN KECH Chemicals (Core Workbook)                               | BW_QRY_MPR_EHS07_CN_0002<br>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<br>JP Annual Reporting (Core Workbook)                             | BW_QRY_MPR_EHS07_JP_0001<br>JP Annual reporting of chemicals (Core Query)                | ZJP_AN_REP          | CREHS01, CUB_EHS06 | All except PUR                                       | Regulation Code ( C_REGCODE) / Type of subst. = JP001, JP002, JP003, # |
| BW_WBK_EHS_SVT_JP_002<br>JP SVE-LPN Annual Reporting (Core Workbook)                     | BW_QRY_MPR_EHS07_JP_0002<br>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<br>KR Annual Reporting (Core Workbook)                             | BW_QRY_MPR_EHS07_KR_0001<br>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<br>KR Registration (Core Workbook)                                 | BW_QRY_MPR_EHS07_KR_0002<br>KR Registration (Core Query)                                 | ZKR_DESIGN, ZKR_NEW | CREHS03, CUB_EHS08 | PRO/ICI/IMP<br>On devrait ajouter le filtre dans qry | Regulation Code ( C_REGCODE) / Type of subst. = KR003, KR004, #        |
| BW_WBK_EHS_SVT_TR_001<br>TR Substances Notification (Core Workbook)                      | BW_QRY_MPR_EHS07_TR_0001<br>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<br>EU REACH (Core Workbook)                                        | BW_QRY_MPR_EHS07_EU_0001<br>EU REACH (Core Query)                                        | REACH               | CREHS04, CREHS06   | ICI, PRO, IMP                                        |                                                                        |
| BW_WBK_EHS_SVT_US_001<br>US TSCA CDR (Core Workbook)                                     | BW_QRY_MPR_EHS07_US_0001<br>US TSCA CDR (Core Query)                                     | TSCA                | CREHS05, CREHS07   | IMP, ICI, PRO, EXP                                   |                                                                        |
| BW_WBK_EHS_SVT_US_002<br>US TSCA 12b (Core Workbook)                                     | BW_QRY_MPR_EHS07_US_0002<br>US TSCA 12b (Core Query)                                     | ZUS_T12B            | CREHS05, CREHS07   | EXP                                                  |                                                                        |
| BW_WBK_EHS_SVT_CA_001<br>Canada Non DSL Tracking (Core Workbook)                         | BW_QRY_MPR_EHS07_CA_0001<br>Canada Non DSL Tracking (Core Query)                         | ZCA_DSL             | CREHS05, CREHS07   | IMP, PRO, ICI                                        | Substance <> EXCLUDED                                                  |
| BW_WBK_EHS_SVT_CA_002<br>Extended tracking for Canada (Core Workbook)                    | BW_QRY_MPR_EHS07_CA_0002<br>Extended tracking for Canada (Core Query)                    | ZCA_SVT             | CREHS05, CREHS07   | IMP, ICI, PRO                                        |                                                                        |
| BW_WBK_EHS_SVT_EU_003<br>SVT Report-Notification of nanomaterials Europe (core Workbook) | BW_QRY_MPR_EHS07_EU_0002<br>SVT Report-Notification of nanomaterials Europe (core Query) | ZEU_NANO            | CREHS04, CREHS06   | IMP, ICI, PRO                                        |                                                                        |
| BW_WBK_EHS_SVT_AU_001<br>AU Annual Reporting (Core Workbook)                             | BW_QRY_MPR_EHS07_AU_0001<br>AU Annual reporting of chemicals - SO                        | ZAU_AICS            | CREHS08            | SO                                                   |                                                                        |
|                                                                                          |                                                                                          |                     |                    |                                                      |                                                                        |
|                                                                                          |                                                                                          |                     |                    |                                                      |                                                                        |
|                                                                                          |                                                                                          |                     |                    |                                                      |                                                                        |

|                                                                            |          |         |          |                      |
|----------------------------------------------------------------------------|----------|---------|----------|----------------------|
| BW_QRY_MPR_EHS07_AU_0002<br><br>AU Annual reporting of chemicals - IMP+ICI | ZAU_AICS | CREHS08 | ICI, IMP |                      |
| BW_QRY_MPR_EHS07_AU_0003<br><br>AU Annual reporting of chemicals - PRO     | ZAU_AICS | CREHS08 | PRO      |                      |
| BW_QRY_MPR_EHS07_AU_0004<br><br>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) different from US = US + PR, GU, VI, AS , MP

Additional rule :

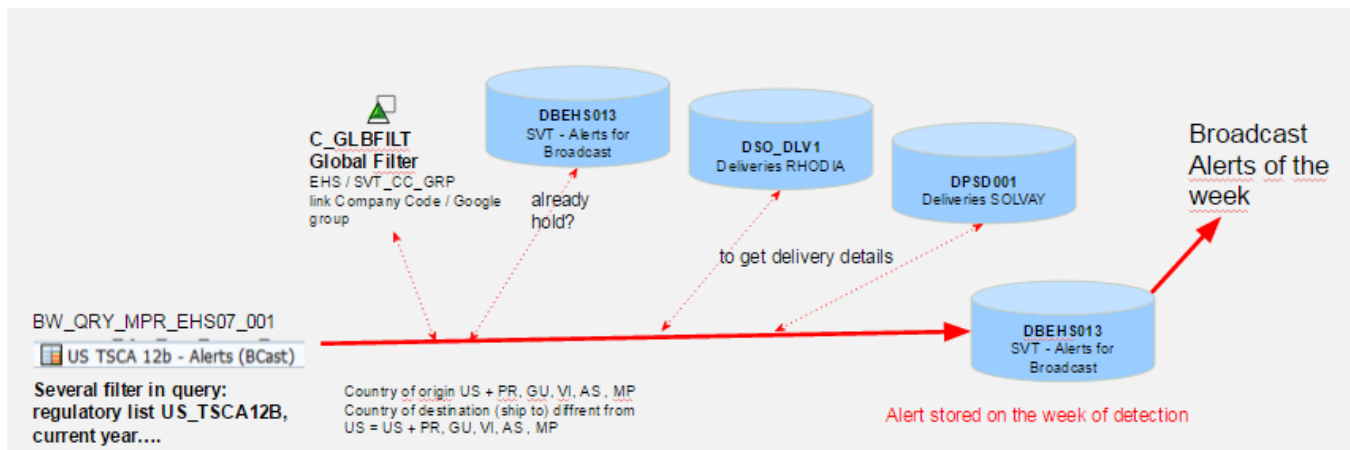
The delivery creation date has to be the same year as goods issue date.

### Broadcast solution

The bex query BW\_QRY\_MPR\_EHS07\_001 / US TSCA 12b - Alerts (BCast) identify possible alerts.

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 delivery details in the SVT cubes
- the google group to which the alert has to be send (C\_GLBFLT)

#### 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\_GLBFLT) => 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

| Cou ntry | Broadcast              | Query                | Query Description                                            | Query Type                             | Variante prog<br>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<br>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

Settings for Object Type Query Open | Overview of Scheduled Settings

| Description                                 | Technical Name         | Owner    | Last Changed        | Scheduled |
|---------------------------------------------|------------------------|----------|---------------------|-----------|
| <a href="#">EHS SVT US Alert (ZUS_T12B)</a> | BW_QRY_EHS_SVT_US_0001 | BW_BCAST | 07.01.2016 09:15:18 | No        |

Create New Setting Create New Setting with the Wizard

**Setting EHS SVT US Alert (ZUS\_T12B)**

Description EHS SVT US Alert (ZUS\_ Technical Name BW\_QRY\_EHS\_SVT\_US\_0001

Distribution Type Broadcast E-Mail (Bursting) Output Format XML (MS Excel) ☐ As ZIP File

**Recipient Determination** User/Language Texts General Precalculation Filter Navigation

**Characteristic for Recipient Determination**

☐ Send Document Unchanged Characteristic

☒ Filter Document by Characteristic Value Characteristic Google Group

Attribute for Recipient Determination E-Mail Address Attribute Value Is E-Mail Address

**Selection of the Characteristic Values**

☐ By Following Selection  
Selection Create

☒ By Control Query  
Control Query BW\_QRY\_DBEHS013\_0002 Variant (No Selection Possible)

Save Save as... Check Schedule Execute Close

Content of the email

**Broadcaster**

Settings for Object Type Query Open | Overview of Scheduled Settings

| Description                                 | Technical Name         | Owner    | Last Changed        | Scheduled |
|---------------------------------------------|------------------------|----------|---------------------|-----------|
| <a href="#">EHS SVT US Alert (ZUS_T12B)</a> | BW_QRY_EHS_SVT_US_0001 | BW_BCAST | 07.01.2016 09:15:18 | No        |

Create New Setting Create New Setting with the Wizard

**Setting EHS SVT US Alert (ZUS\_T12B)**

Description EHS SVT US Alert (ZUS\_ Technical Name BW\_QRY\_EHS\_SVT\_US\_0001

Distribution Type Broadcast E-Mail (Bursting) Output Format XML (MS Excel) ☐ As ZIP File

**Recipient Determination** User/Language **Texts** General Precalculation Filter Navigation

Subject BW - EHS SVT - TSCA 12B Alerts (Broadcast) Importance Medium

Contents

Hello,

This is an automatic e-mail.  
Please find attached the TSCA 12B alert report for this week.  
It tracks the first export of the year for a material containing a substance listed on TSCA 12B above its de minimis value, for a combination ship to country/company code.

Regards,  
BW CC Team

Save Save as... Check Schedule Execute Close

## 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\*

| <b>Characteristic C_GLBFILT - maintain master data: List</b>                        |        |            |         |                                    |      |        |        |        |        |
|-------------------------------------------------------------------------------------|--------|------------|---------|------------------------------------|------|--------|--------|--------|--------|
|  |        |            |         |                                    |      |        |        |        |        |
|  | 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

| <b>Characteristic C_GLBFLT - maintain master data: List</b> |          |         |                                 |      |        |      |       |        |  |
|-------------------------------------------------------------|----------|---------|---------------------------------|------|--------|------|-------|--------|--|
| 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 deactivated with Active = N
- Second line has to be deactivated 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

| <b>Characteristic C_GROUP - maintain master data: List</b> |    |                           |                   |  |
|------------------------------------------------------------|----|---------------------------|-------------------|--|
| 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\_GLBFLT : (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