

Technical Documentation - EHS Report

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Access Management

Roles & Access

Link to the BW Catalog of role

https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5l

BI Analysis Authorization Z_CONV is given through role ZR_RCS_EHS_A08 : restriction on object 0EHS_SPEC__0EHS_AUTH using the variable V_0EHS_SPEC__0EHS_AUTH_0001 and on object 0EHS_AUTH using the variable \$V_0EHS_AUTH_0003. This method consists to read the DSO DPBWAU01 on tctiobjnm = ""EHS_AUTH" and should not be used anymore.*

Role Code	Role Description	Explanation
ZR_RCS_CA_M51	EHS Reporting - ADMIN Reports	Role menu for EHS admin team reports
ZR_RCS_CA_M45	EHS Reporting - SDS Reports	Role menu for EHS reports "documents generation" and "SDS shipping"
ZBI_RCS_EHS_A02	Environment, Health and Safety Analysis - End User Role	Application Role: • End User rights • gives access to infoproviders of Infoarea "AREA_EHSTR" (EHS - Transactional Data) • BI Analysis Authorization "ZBI_EHS" ("*" for authorization objects not relevant for the application)
ZR_RCS_EHS_A08	EHS - Convergence - End User Role	Application Role: • End User rights • gives access to infoproviders of Infoarea "IA_EHS_DOC_GEN*" (IA_EHS_DOC_GEN) and "IA_EHS_RS_*" (Report Shipping) • BI Analysis Authorization "Z_CONV" ("*" for authorization objects not relevant for the application)
ZR_RCS_EHS_A02	Environment, Health and Safety Analysis - End User Role	• End user rights • BI Analysis Authorization "Z_EHS"
ZR_RCS_EHS_A03	Environment, Health and Safety Analysis - Key User Role	• End user rights • BI Analysis Authorization "Z_EHS_K"
ZP2_RCS_EHS_A02	Environment, Health and Safety Analysis - End User Role	• End user rights • BI Analysis Authorization "ZP2_EHS"

Authorization Objects

BI Analysis Authorization Z_CONV is given through role ZR_RCS_EHS_A08 : restriction on object 0EHS_SPEC__0EHS_AUTH using the variable V_0EHS_SPEC__0EHS_AUTH_0001 and on object 0EHS_AUTH using the variable \$V_0EHS_AUTH_0003. This method consists to read the DSO DPBWAU01 on tctobjnm = ""EHS_AUTH"" and should not be used anymore.

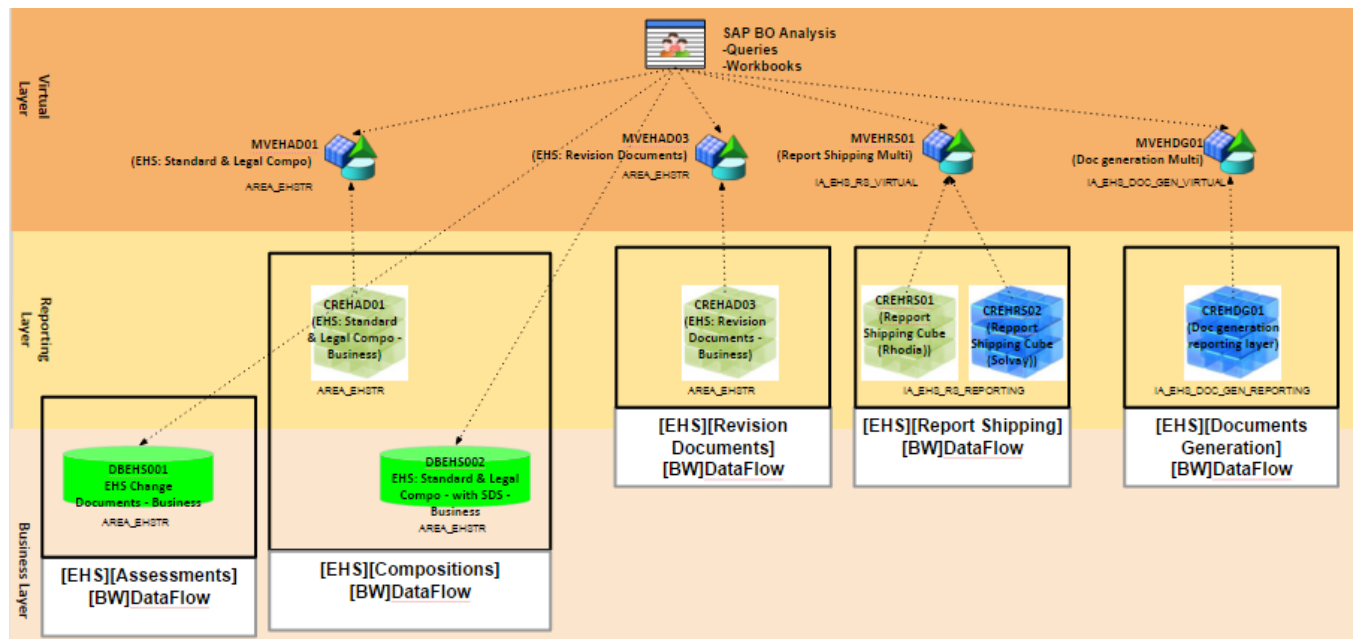
Authorization object	Explanation
CPFCTR1_2	GBU, role: ZR_*_CA_P05
C_AUTHMA 0EHS_SPEC__C_AUTHMA	Authorization scope role: ZR_*_CA_P00
0EHS_SPEC__0EHS_AUTH 0EHS_AUTH	Authorization group role: ZR_*_CA_P30

Link to the BW Catalog of role

https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5I

DataFlow

Overview



https://drive.google.com/file/d/15zmS2iu3Qyyomu8_yow-FgcACKwiLwNhhvptP1kuM2M/view

Reporting documentation drive folder:

<https://drive.google.com/drive/folders/1vt7JRYA2X3WxRiERMejawknn8waQ8al>

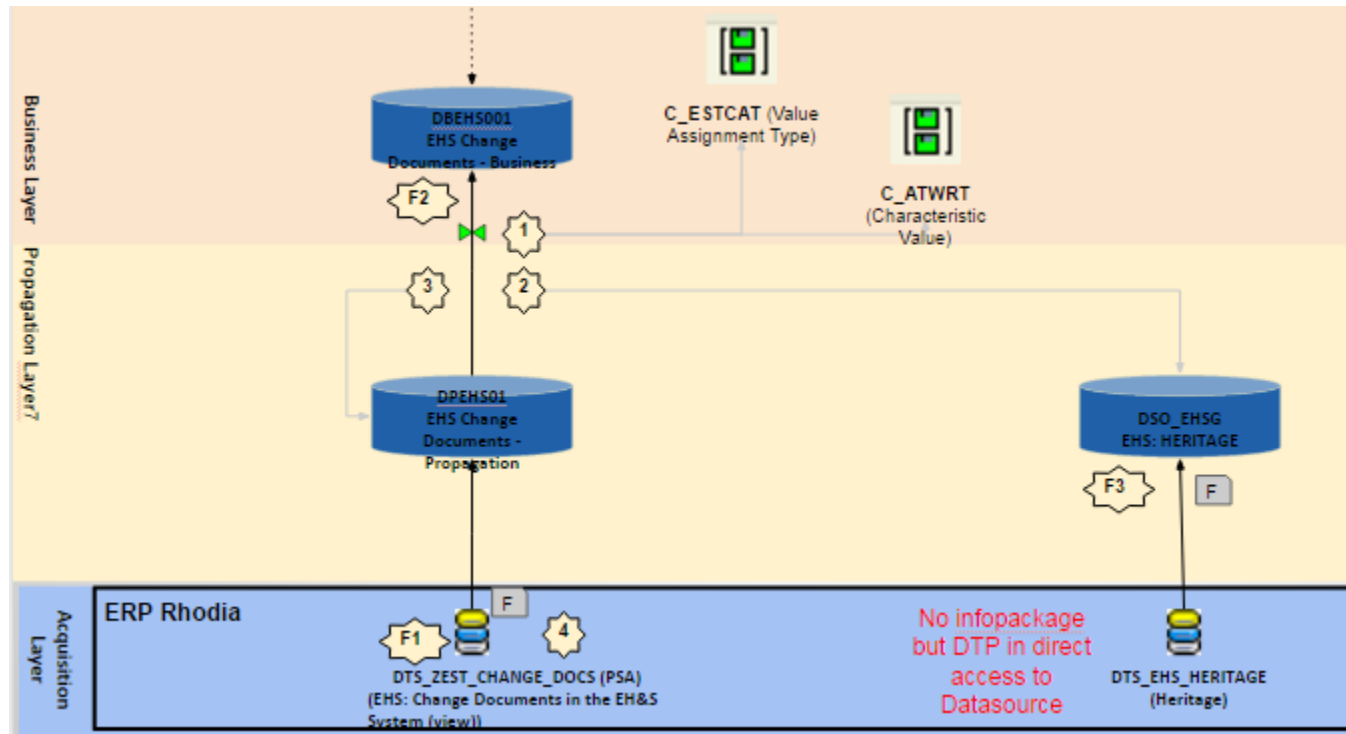
Technical Rules on Workbench

Assessments dataflow

SAP system logs all the changes that are made within the Specification Management (changes on substances properties, compositions...). This flow extracts these changes, from the table EST_CHANGE_DOCS which updated using the program RC1_CHANGE_DOCS_GET.

Table EST_CHANGE_DOCS contains 2 years of data.

Program RC1_CHANGE_DOCS_GET is not automatically running in non productive systems.



https://drive.google.com/file/d/1pY3hsqcG3AXULPO-2OBDHY5IyQaYoHS0MDVf_05oT1E/view

Zone determination (R1)

General case: the zone is obtained from the characteristics (C_ATWRT) attribute.

Special case: if the modification type is "Delete" and the characteristic value is empty, the zone is obtained from the Value Assignment Type (C_ESTCAT) attribute.

PURE_SUB determination when LIST_SUB inheritance (R2)

Some data are managed at LIST_SUB level and transfer to the PURE_SUB by inheritance link. In that case, the modification recovered in EST_CHANGE_DOCS table is at LIST_SUB level but not at PURE_SUB level.

In order to recover the LIST_SUB modifications at PURE_SUB level, the inheritance link are extracted into BW (DSO_EHSG). Each modification at LIST_SUB level is duplicated for each corresponding PURE_SUB. The LIST_SUB specification is kept in infoobject EHS_SPEC and the PURE_SUB specification in infoobject C_SPEC2. The flag "Inherited data" (C_SUBFLG) is filled.

Modification type (R3)

The field "Change Indicator Flag" (C_CHIND) is used to know how the EHS data have been modified: deletion, first load (insert), update, inactivation.

The change indicator field (CHNGIND) in source table EST_CHANGE_DOCS is used to determine a different value in C_CHIND, depending of the other lines on the change document:

- Modification type = Insert

If records with TABNAM = ESTCAT have CHNGIND = U, and have a record with TABNAM = ESTDU and CHNGIND = I and with same MASTER_RECNO, then modification type field = Insert.

- Modification type = Update

If records with TABNAM = ESTCAT have CHNGIND = U, and do not have records with TABNAM = ESTDU with same MASTER_RECNO, then modification type field = Update.

- Modification type = Delete

If records with TABNAM = ESTDU have CHNGIND = D, then modification type field = Delete.

- Modification type = Inactivate

If we have records with TABNAM = ESTDU, FNAME = ACTVFLG, VALUE_OLD = X and VALUE_NEW is empty, then modification type = Inactivate.

Instance ID determination (R3)

The instance ID on the lines concerning changes on characteristics value or usage is not filled in the table EST_CHANGE_DOCS. That is why the instance ID is determined in the extractor from ESTVA table. However, if the instance is deleted, the corresponding record is first flagged as "deleted" in the tables and then is physically removed from ESTVA. In consequence, to be able to retrieve the instance ID when the instance is deleted, we have to find it in the logs concerning ESTVA table changes => this is done by a look up in the propagation layer DSO DPEHS01 where tablename = "ESTVA".

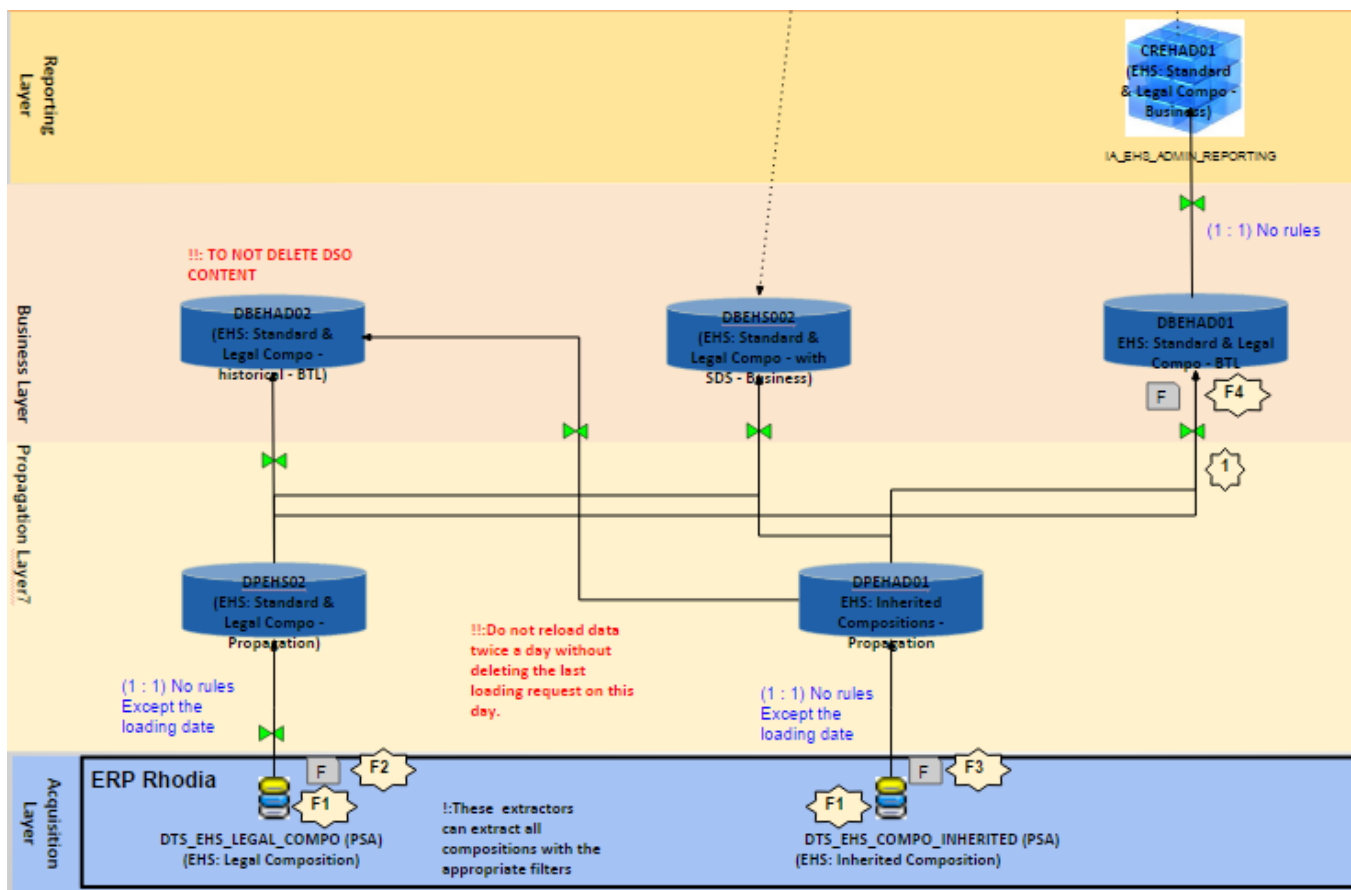
Datasources customer exit:

- DTS_ZEST_CHANGE_DOCS **(R4)**:
 - determination of the instance (zzord) from table ESTVA. If this instance can't be determined because it was deleted from the table, a look up is done in BW (cf. Instance ID determination (R3))
 - determination of the usages (zzusage) from table ESTDU. If there are several usages, they are concatenated in the same field. The usages are not determined for lines with tablename = "ESTVA" or "ESTCAT" when they are deleted.

Legal and Standard Compositions dataflow (MVEHAD01)

Compositions are extracted using specific datasources based on Infosets. A filter in the Value Assignment Type (ESTCAT) allows to restrict the extraction to Legal (EHS_1012_024) and Standard (SAP_EHS_1012_003) compositions.

Full loading is required because data can be deleted in source system database: deletion flags are filled but database entries can be deleted before the loading into BW so we could miss some deletion if we work with delta.



<https://drive.google.com/file/d/1bDooTO-LmbG7y9dzJ1VEgEph7zINLDOHlwFvaOkqEQ/view>

To not delete Data Propagation / Business Transformation Layer DSO content

DSO DPEHS02 and DBEHAD02 content must not be deleted because deleted compositions and specifications are not kept in the source system, so it is not possible to recover historical data.

Historical data is only needed for the DSO DBEHAD02 which is used for EHS KPI.

Inherited compositions

Inherited compositions (from a template specification) are not extracted by the datasource "DTS_EHS_LEGAL_COMPO". Another datasource "DTS_EHS_COMPO_INHERITED" was created in order to extract these inherited compositions.

No technical rules were given to handle the case of breaking an inheritance as this case should not occur.

"General" authorization group

ODSO DPEHS034 -> ODSO DBEHAD01 & ODSO DPEHS02 -> ODSO DBEHAD01 & ODSO DPEHAD01 -> ODSO DBEHAD01

If the key of the authorization group is ZZ_BU*X or ZZ_BU*R, the "general" authorization group is the authorization group without the last character (example : authorization group = ZZ_BU_01R => "general" authorization group = ZZ_BU_01). We check the existence of the "general" authorization group in MD 0EHS_AUTH.

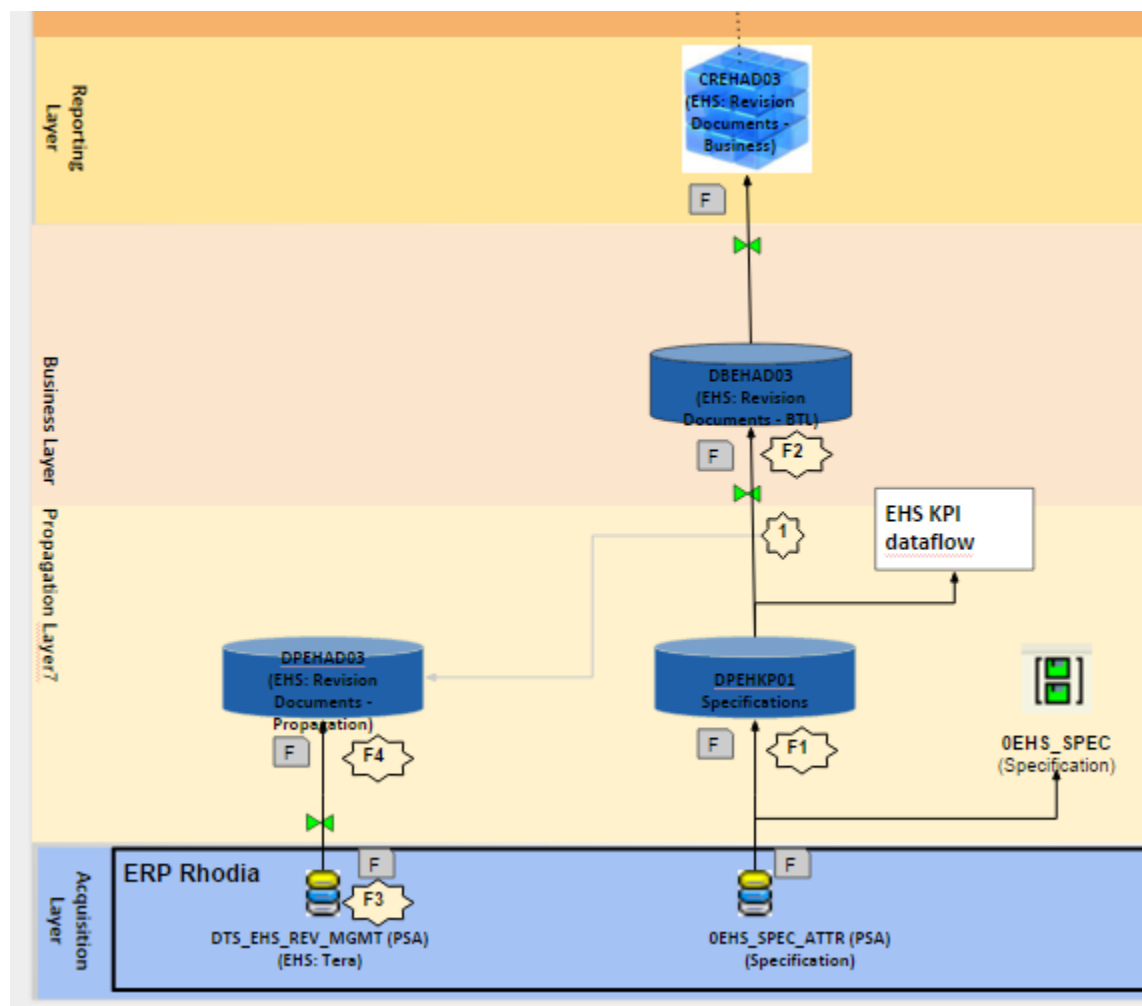
Else, the "general" authorization group is the authorization group.

Revision documents dataflow (MVEHAD03)

Revision documents data are extracted using a specific datasources based on the Function Module Z_WBW_DTS_EHS_REV_MGMT. It extracts data from tables ESTRH (EHS: Specification Header), ESTVH (EHS: Specification - Value Assignment Type Assignment), ESTVA (EHS: Value Assignment), ESTDU (EHS: Additional Information: Value Assignment Usage), ESTDF (Additional Information - User-Defined Text), CABN (Characteristic) and AUSP (Characteristic Values).

The need for reporting is to see all PURE_SUB even if there is no revision document for the substance. That is why the flow is based on the extractor of the specifications (OEHS_SPEC_ATTR) and that a look up is done in the DSO DPEHAD03 to retrieve the Revision documents data.

Full loading is required because data can be deleted in source system database: deletion flags are filled but database entries can be deleted before the loading into BW so we could miss some deletion if we work with delta.



<https://drive.google.com/file/d/11jJXcxtsx58V5nZx9zRkqzTwMW31syuZV855VffR9bQ/view>

Revision documents data (R1)

ODSO DPEHKP01 -> ODSO DBEHAD03

The revision documents data are added to the corresponding substances in DBEHAD03 by a look up in the DSO DPEHAD03. This lookup is used to determine C_FLESTDF (Flag for ESTDF-TEXTCAT), C_SORT_SQ (Sort Sequence ESTVA-SORT), C_USG_RW (Usage Concatenate Rating and Area), C_VL_USR (Characteristic VALUSER), C_VL_ASS (Characteristic ASSESSMENT), C_VL_DAT (Characteristic VALDAT), EHS_RVLID (Validity Area), C_ESTCAT (Value Assignment Type (CLASS)).

If there are several revision document instances, only data from the last instance are taken.

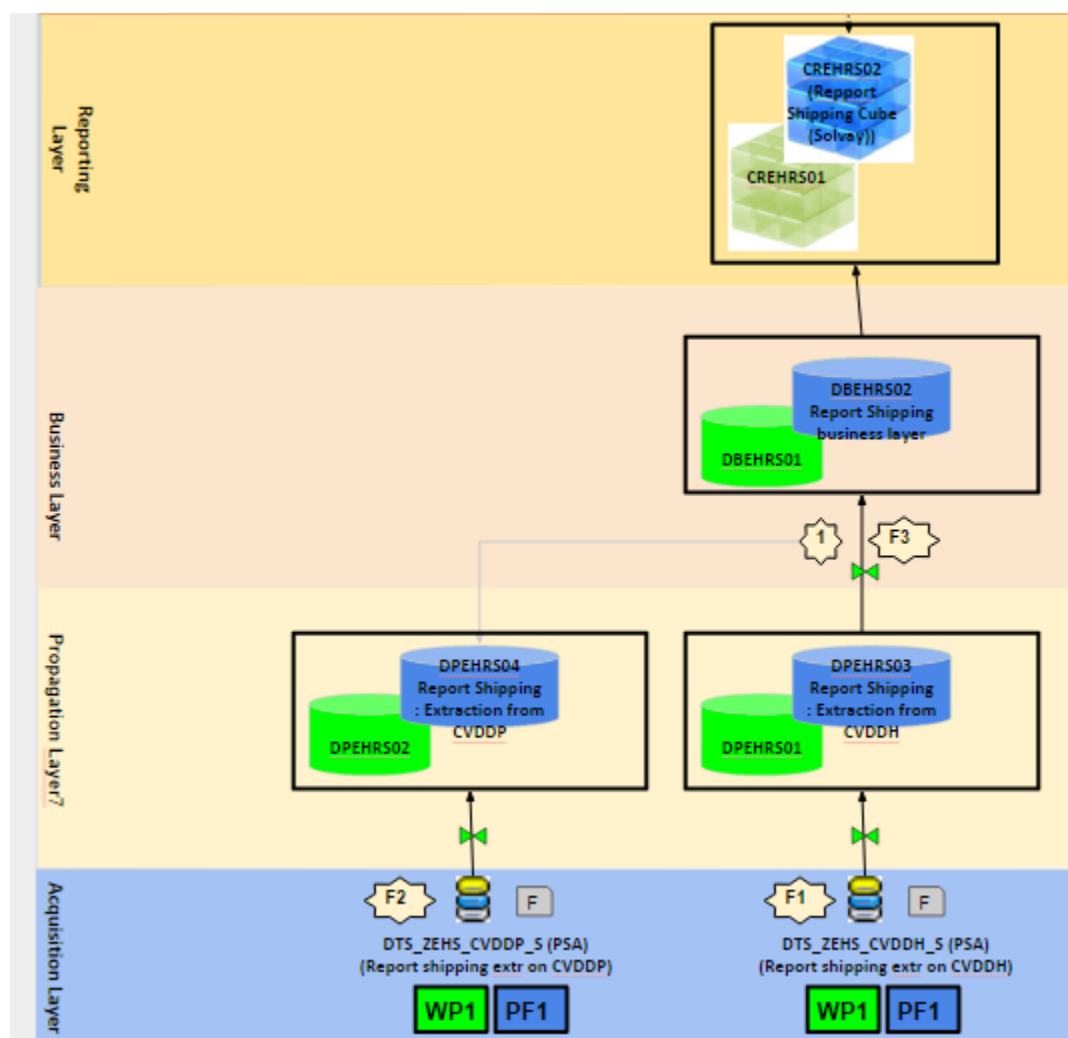
If the key of the authorization group is ZZ_BU*X or ZZ_BU*R, the "general" authorization group is the authorization group without the last character (example : authorization group = ZZ_BU_01R => "general" authorization group = ZZ_BU_01). We check the existence of the "general" authorization group in MD OEHS_AUTH.

Else, the "general" authorization group is the authorization group.

Report shipping dataflow (MVEHRS01)

SAP shipping process send SDS (Safety Data Sheet) to customers when Rhodia Legacy or Solvay legacy sold a product to them

To avoid a daily complete deletion and reloading, a selective deletion of the 12 last months in DSO and cubes is done and only this perimeter is reloaded.



- “DBE” (Cover Sheet Template)
- “DBV” (Cover sheet - final version)

Data from sales documents (sales org, sales group, sales office) (R1)

TRSE: DPEHRS03 -> DBEHRS02 (Solvay)

The link between the report shipping order and the sales document exists in table CVDDP (EHS: Parameter Values for Report Shipping) DPEHRS04

Several fields as VALUE (sales document), C_SAL_ORG, C_SAL_GRP, C_SAL_OFF, C_DISTCHN, C_DIVISN are filled in the field from the table CVDDP (dso DPEHRS04) lines with ATTRIB = "VBELN" if a correspondance is found with C_REC2 and C_PARVW = 'RE'.

C_SOLDTO is filled from the table CVDDP (dso DPEHRS04) line with ATTRIB = "VBELN" if a correspondance is found with C_REC2 and C_PARVW = 'AG'.

C_SHIPTO is filled from the table CVDDP (dso DPEHRS04) line with ATTRIB = "VBELN" if a correspondance is found with C_REC2 and C_PARVW = 'WE'.

We take the fields C_PERSNUM C_ADDR_NO from dso dpehrs06 (with help of source field C_RECIDP).

C_EMAILID and C_FLAGCOM come from dso dpehrs08 where addatefrom = '00010101' and c_persnum & C_ADDR_NO founded in dpehrs06.

The d atasource DTS_ZEHS_CVDDP_S (resp. DTS_ZEHS_RS_CVDDP for Rhodia) is based on a view on tables CVDDP and VBAK (Sales Documents), restricted on CVDDP-ATTRIB = "VBELN".

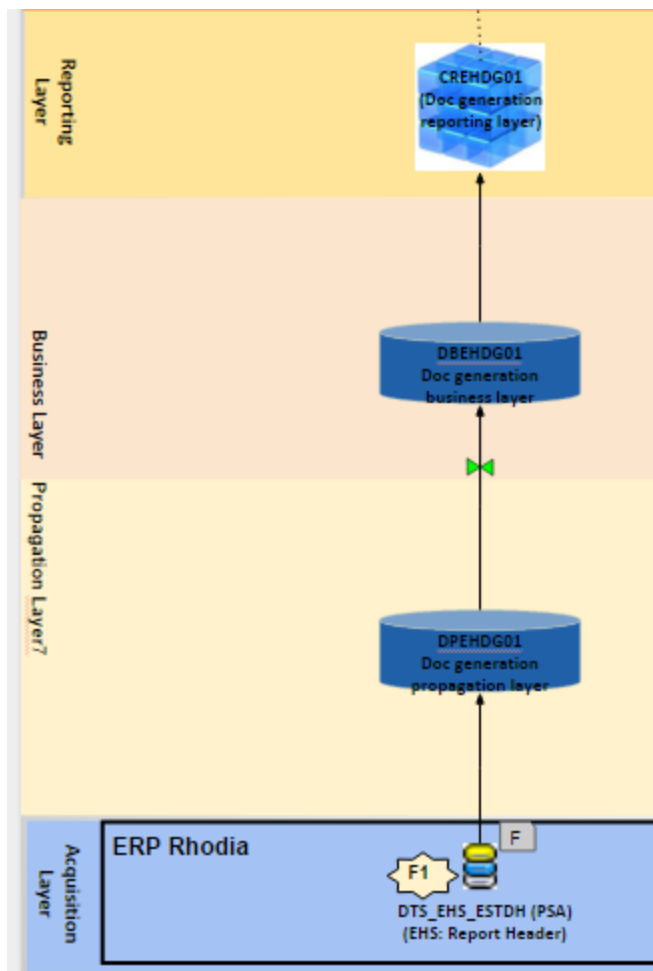
TRSE: DBEHRS02 -> CREHRS02 (Solvay)

If C_SHIPSTA = 'COMPLETED', K_SUCESS = 1 else = 0.

Document generation dataflow (MVEHDG01)

Through SAP EHS, a lots of EHS documents can be generated, e.g. SDS (Safety Data Sheet), Label (Sample Label, Transportation Label, GLM Label), TDS (Technical Data Sheet).

This flow extracts data from tables ESTDH (EHS: Report Header) and DRAP (Document Log File) .



<https://drive.google.com/file/d/1EqkgJnBD-9jfF6osc7OXccgzcmM9iLLkpHVwYUTNOfE/view>

Datasources :

- DTS_EHS_ESTDH (EHS: Report Header): extracts data from table ESTDH via the Function Module Z_WBW_DTS_EHS_ESTDH. The date of status change ZREPRDAT is obtained by look up in table DRAP.

Master Data dataflow

Specifications (0EHS_SPEC):

Attributes:

0EHS_SPEC attributes are loading from the standard datasource 0EHS_SPEC_ATTR.

The following zones are updated by the customer exit:

- ZZIDTYPE = ESTRI-idtype for ESTRI-langu = "EN". (first value)
- ZZIDCAT = ESTRI-idcat for ESTRI-langu = "EN". (first value)
- ZZNUNCAS = ESTRI-ident for ESTRI-idtype= "NUM", ESTRI-idcat="CAS" and ESTRI-langu = "".
- ZZNANINT = ESTRI-ident for ESTRI-idtype= "NAM", ESTRI-idcat="Z_INTERNAL" and ESTRI-langu = "".
- ZZNUNCE = ESTRI-ident for ESTRI-idtype= "NUM", ESTRI-idcat="EINECS" and ESTRI-langu = "" or for ESTRI-idtype= "NUM", ESTRI-idcat=" CE" and ESTRI-langu = "" or for ESTRI-idtype= "NUM", ESTRI-idcat="Z_LISTNUM" and ESTRI-langu = "".
- ZZNANPLC = ESTRI-ident for ESTRI-idtype= "NAM", ESTRI-idcat="Z_PLC" and ESTRI-langu = "".
- ZZOWNER = ESTRI-ident for ESTRI-idtype= "NAM", ESTRI-idcat="Z_OWNER" and ESTRI-langu = "".
- ZZPORTFO = ESTRI-ident for ESTRI-idtype= "NUM", ESTRI-idcat="Z_PORTFO" and ESTRI-langu = "".
- ZZOBSFLG = "X" if:
 - ESTRI-ident = "OBSOLETE" for ESTRI-idtype= "NAM", ESTRI-idcat="Z_PLC" and ESTRI-langu = "".
 - ESTRI-ident = " *OBS*" for ESTRI-idtype= "NAM", ESTRI-idcat="PROD" and ESTRI-langu = "" or "E".
- ZZCRDAT = ESTRH-CRDAT.

C_AUTHMA and C_PFCTR1_2 come from master data EHS_AUTH.

Phrases extraction (texts of the classes characteristics) :

One datasource DTS_ZBW_ESTPP is used to update the texts of the EHS properties. The InfoObjects concerned are:

- C_OLDVAL "Old value"
- C_NEWVAL "New value"
- C_EHSRMK "Remarks" (do not concern this application)
- C_EXREASN "Reason of exemption" (do not concern this application)
- C_NOTEXR "Reason of notif exemption" (do not concern this application)
- C_TYPEDOSS "Type of dossier" (do not concern this application)
- C_USAGEJP "Product Usage Code" (do not concern this application)

The texts of the InfoObjects are updated only if the SID already exists.

The datasource DTS_ZBW_ESTPP is based on the view ZBW_ESTPP between ESTPH (EHS: Phrase Header) and ESTPP (EHS: Phrase Item).

It is restricted to the customer phrase library (ESTPH-catpin= "CUST") and to english texts (ESTPP-langu = "E").

Characteristic (C_ATWRT)

Attributes:

C_ATWRT attributes are loading from a flat file (DTS_C_ATWRT_FF).

This loading is not scheduled.

The file contains 2 attributes :

- Magnitude Geographie / Zone (C_ZONE): it contains the zone (AP, EU, LA, NA, WW) used for the Assessment report (first tab).
- Assessment report flag (C_ASSRFLG): "X" if the characteristic must be included in the Assessment report.

Flat file directory: <https://drive.google.com/drive/folders/13HENIz7pwLxxDBzZn3stjluohwJEN65p>

Updated by EHS admin or IT.

Value Assignment Type (CLASS) (C_ESTCAT):

Attributes:

C_ESTCAT attributes are loading from a flat file (DTS_C_ESTCAT_FF): ~~RSDS DTS_C_ESTCAT_FF PC_FILE -> IOBJ C_ESTCAT~~

The file loading is not scheduled.

The file contains 3 attributes :

- Magnitude Geographie / Zone (C_ZONE): it contains the zone (AP, EU, LA, NA, WW) used for the Assessment report (first tab) for the modification type "Delete" when the characteristic value is empty.
- Assessment report flag (C_ASSRFLG): "X" if the characteristic must be included in the Assessment report.
- IH Report flag (C_IHFLG): "X" if the characteristic must be included in the IH report.

Flat file directory: <https://drive.google.com/drive/folders/13HENIz7pwLxxDBzZn3stjluohwJEN65p>

Updated by EHS admin or IT.

Another transformation comes from datasource DTS_EHS_TCG12_TEXT (WP1). This transformation is used to put 1 as constant in attribute C_COUNTNR.

Report Generation Variant (C_SBGVID)

Attributes:

C_SBGVID attributes are loading from a flat file (DTS_C_SBGVID_ATTR).

The file loading is not scheduled.

The file contains 2 attributes :

- Magnitude Geographie / Zone (C_ZONE): it contains the zone (AP, EU, LA, NA, WW) used for the Documents generation report.

- Report Type (C_DREPTY): it contains the doc type (EU Label, certificate, TDS,...) used for the Documents generation report.

Flat file directory: <https://drive.google.com/drive/folders/13HENIz7pwLxxDBzZn3stjluohwJEN65p>

Updated by EHS admin or IT.

Partner Email information :

GDPR

The Partner's Email information come from ADR6 table (stored in DSO DPEHRS07 from WP1 and DPEHRS08 from PF1), this information is filled only for EHS Partners.

The information is filled by lookup in Report Shipping flow between the Propagation and Business Layer (DBEHRS01 on WP1 and DBEHRS02 on PF1).

The Logic used in the lookup is the following :

- We read KNVK information stored in DSO DPEHRS05, to take the Partner information with the condition : CVDDH Receipt ID = KNKV Contact Personn.
- The corresponding KNVK lines are used to read data from ADR6 table with the following condition :
 - IF KNVK Person Number = ADR6 Person Number AND KNVK Address Number = ADR6 Address Number Email information filling
 - Else : KNVK Person Number = ADR6 Person Number Email information filling
 - Else KNVK Address Number = ADR6 Address Number Email information filling

The information is stored in the BW targets below : so all queries created on the BW targets below could integrate the email address data

MVEHRS01 Report Shipping Multi

CREHRS02 Report Shipping Cube (Solvay)

DBEHRS02 Report Shipping business layer (Solvay)

CREHRS01 Report Shipping Cube (Rhodia)

DBEHRS01 Report Shipping business layer (Rhodia)

The field impacted is C_EMAILID E-Mail Address

Date	MVEHRS014
Communication Type	MVEHRS015
Reason type	C_RETYP
E-Mail Address	C_EMAILID
Indicator: E-Mail Address(es) Maint	C_FLAGCOM
SDS Receiver Email	C_SDSEMAIL
Communication Type	C_COM_ART

This development was done in the scope of the following of **SDS** reports (**Safety Data Sheet**) . The report are mandatory in the REACH program (European regulation)

SDS reports are produced either sent to customer legal provision to customer who purchased Solvay products+ we must send the SDS for all the major changes for all the buyer customers in the last 12 months.

The GBU can use the BW report or directly on the ECC system in the mail error address generated each time the sending to the customer is not working, BW reports provide the mail of the customer. (

from PF1 system is customer Sold to and WP1 customer Ship to)

Useful transactions / programs

Transaction	Description	Corresponding table	Comments
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CG02	Substance Workbench	ESTRH, ESTVA, ESTDU....	
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Reporting

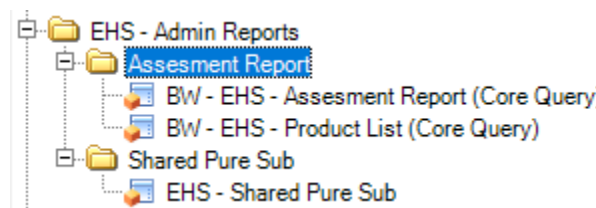
List of queries

Query	Description
BW_QRY_CREHRS01_002	BW – EHS - Report Shipping details (Core Query)
BW_QRY_CREHRS01_001	BW – EHS - Report Shipping dashboard (Core Query)
BW_QRY_MVEHDG01_001	BW - EHS - Spec & reports per GBU (Core Query)
BW_QRY_MVEHDG01_002	BW - EHS - Report generation (Core Query)
BW_QRY_MVEHAD01_0001	EHS - Shared Pure Sub
BW_QRY_MVEHDG01_003	BW - EHS - Report generation (Broadcast)
BW_QRY_MVEHAD03_0001	EHS: Revision Documents
BW_QRY_CREHRS01_004	BW-EHS-Shipping Report Details, 90 days (Core query)
BW_QRY_CREHRS01_003	BW-EHS-Shipping Report Dashboard, 90 days, SalesOrg (Core qu
QVRCSKPI_BW_QRY_MVEHDG01_002	BW - EHS - Report generation (QlickView)
BW_QRY_CREHRS01_005	BW-EHS-Shipping Report Dashbd, 30 days, SalesOffice (Core qu
BW_QRY_CREHRS01_006	BW-EHS-Shipping Report Dashboard, 30 days (Core query)

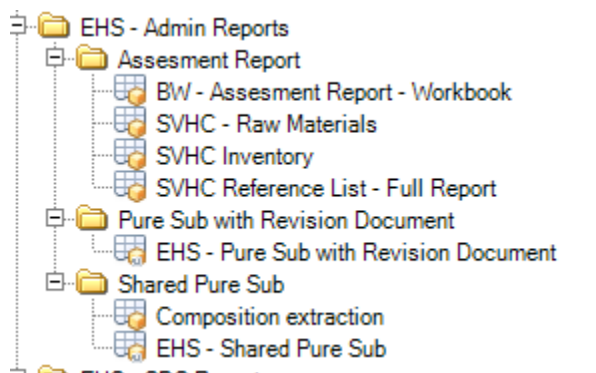
All reports are available via workbooks published in the Roles menu.

Role menu "EHS Reporting - ADMIN Reports" (ZR_RCS_CA_M51)

Queries

	ZR_RCS_CA_M51 0000005378 BW_QRY_DBEHS001_0001 BW_QRY_DBEHS002_0001 0000005382 BW_QRY_MVEHAD01_0001
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Workbooks

	ZR_RCS_CA_M51 ZR_RCS_CA_M51 BW_WB_EHS_0001 BW_WBK_SVHC_030 BW_WBK_SVHC_020 BW_WBK_SVHC_010 ZR_RCS_CA_M51 BW_WBK_EHS_0003 ZR_RCS_CA_M51 BW_WBK_EHS_0004 BW_WBK_EHS_0002
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- Assessment Report

When modifying data in the Pure Substances, it may have an impact on the Safety Data Sheet.

In order to simplify the communication process between the HazCom team and the SDS Writers, a report has been designed in BW that 1) lists in the first tab the changes made to the Pure Substances. A change can be a deletion, an insertion or an update (in which case the old and new value are displayed)

2) lists in the following tabs all the products that contain these Pure Substances and at which concentration AND that have a released SDS in the zone

Then the Zone SDS Writer can easily identify which products may be impacted by the change and if the SDS needs to be revised accordingly.

This report is only available to the Admin team, it will be sent to the SDS Writers when needed.

Tab 1:

BEx Query = BW - EHS - Assesment Report (Core Query) (BW_QRY_DBEHS001_0001)

List of EHS classes and characteristics displayed in the report are filtered using the attributes

C_ATWRT__C_ASSRFLG and C_ESTCAT__C_ASSRFLG.

Tab 2:

BEx Query = BW - EHS - Product List (Core Query) (BW_QRY_DBEHS002_0001)

Exception aggregation "First value" for the ratio "Substance % in Material" for the Ref. Characteristic "C_SBGVID".

Filter on substances (C_SPEC2) : replacement path on query BW_QRY_DBEHS001_0001

- Shared Pure Sub

The aim of this report is to see which Authorization group are using which Pure Sub in their Prod com.

The report is based on the Legal and Standard compositions of the Prod com. The Pure substances in the compositions are displayed by the "general" authorization groups of the Prod com.

The ratio "NB Authorization Group" count the number of times that a distinct "General" Authorization group uses the Pure Sub.

BEx Query = EHS - Shared Pure Sub (BW_QRY_MVEHAD01_0001)

Exception Aggregation "Count for all detailed values" for the ratio "NB Authorization Group" for the Ref. Characteristic "C_EHSAUTG".

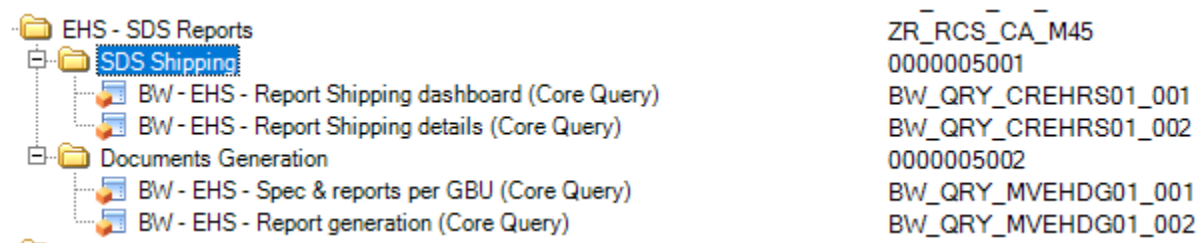
- Pure Sub with Revision Document

The aim of this report is to see which Pure Sub have a Revision document in SAP. When a substance has a revision document, some details on the document are displayed.

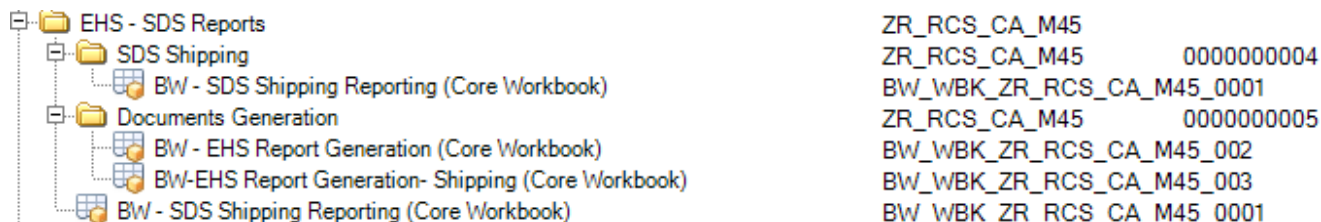
BEx Query = EHS: Revision Documents (BW_QRY_MVEHAD03_0001)

Role menu "EHS Reporting - SDS Reports" (ZR_RCS_CA_M45)

Queries:



Workbooks:



- EHS Report Generation

This report lists all the EHS documents with a released status: SDSs but also labels, transport documents, composition report and certificates.

The status of the product (obsolete or not) is also displayed, which is a good tool to check that we don't keep active documents for obsolete products.

The first tab is a dashboard that gives a summary and the second one provides the details of each document published: which language, created by whom and when. So it is also a good tool to check that there are no SDSs that were created more than 3 years ago.

Tab 1:

BEx Query = BW - EHS - Spec & reports per GBU (Core Query) (BW_QRY_MVEHDG01_001)
Type of reports is an attribute of the Report generation variant (C_SBGVID__C_DREPTYP).

Tab 2:

BEx Query = BW - EHS - Report generation (Core Query) (BW_QRY_MVEHDG01_002)
Ratio "Last validation" = current day - generation date.

- SDS Shipping Reporting

This report lists all the orders that triggered a successful SDS sending or an error. In case of error, the reason is clearly explained: "SDS missing", "Technical error", "Occasional customer".

It is similar to the transaction CVD1 but offers several advantages: search by GBU, easy export to Excel, additional data (order number, customer). Another advantage of having the report in BW is that we included directly some data from the order: especially the order number and customer information. It therefore becomes very easy to check how many SDSs were sent to a particular customer in a given period of time for example. First tab is an overview page and second tab is a detailed view, where each line corresponds to one sales order.

Tab 1:

BEx Query = BW – EHS - Report Shipping dashboard(Core Query) (BW_QRY_CREHRS01_001)

Tab 2:

BEx Query = BW – EHS - Report Shipping details(Core Query) (BW_QRY_CREHRS01_002)

Broadcast

IH report

- EHS - IH Report Weekly Broadcast (BD_EHS_001):

Technical name of object = BW_QRY_DBEHS001_0002

This query is similar to "BW - EHS - Assessment Report (Core Query)" (BW_QRY_DBEHS001_0001) (first tab of the workbook Assessment report) but restricted to some Value Assignment Types (flag c_ihflg = "X") and to the changes that occurred the previous week.

Format = XLS_XML

Variable Assignment = no filter in the broadcast settings

Scheduling = every monday at 8:00am

Destination = Sent by email to Nathalie Berne.

Documents generation

The documents generation report is split into 5 quarterly broadcasts sent by email to the product Stewards

- Quarterly SDS generation report to Product Stewards - HazCom (BD_EHS_DG_001).
- Quarterly SDS generation report to Product Stewards - SSP (BD_EHS_DG_002).
- Quarterly SDS generation report to Prod. Stewards - Polyamide (BD_EHS_DG_003).
- Quarterly SDS generation report to Prod. Stewards - Novecare (BD_EHS_DG_004).
- Quarterly SDS generation report to Prod. Stewards - Others (BD_EHS_DG_005):

Technical name of object = 7919WZ35DF7VENEQZTYBT0HBH (BW_WBK_EHS_0001).

It is an Analyser workbook similar to the Analysis workbook "EHS Report Generation", only the second tab is not based on the same query in order to filter on the reports that were generated before 2 years ago. The workbook is based on the queries "BW - EHS - Spec & reports per GBU (Core Query)" (BW_QRY_MVEHDG01_001) and "BW - EHS - Report generation (Broadcast)" (BW_QRY_MVEHDG01_003). An exception in the query BW_QRY_MVEHDG01_003 highlights the reports generated more than 3 years ago.

Format = XLS

Variable Assignment = filter on a list of Autorization groups (the list is different for each Broadcast)

Scheduling = every quarter, executed via the Process Chain PC_EHS_DG_BCAST_001.

Destination = Sent by email to EHS HazCom support and a list of product stewards (the list is different for each Broadcast).

Dependencies with other applications

DSO DPEHKP01 and DBEHAD02 are used for the RCS KPI application (EHS KPI).

Data Loading

Info Providers and objects loaded

Main Process Chains

Process Chain	Code	Type	Frequency	Comments
EHS Daily Transaccional	EHS_TRANSA CIONAL	SLAVE	- launched by RSP_DAILY - Daily (not week-end) - Start at around 2:50 am - Whole chain lasts around 3h30 minutes	- RCS systems - From datasources to cubes - EHS Master Data and transactional data, except concerning Reports generation and SDS shipping dataflow
EHS Assessment Report	PC_EHS_ASS ESSMENT	SLAVE	- launched by EHS_TRANSACI ONAL - Daily (not week-end) - Start at around 3 am - Whole chain lasts around 10 minutes	- RCS system - From datasources to DSO - Inheritance links (DSO_EHSG), standard and legal compositions to propagation layer and "with SDS" DSO (DBEHS002) and Assessments.
EHS: TD - D - Admin	PC_EHS_ADM IN_01	SLAVE	- Daily (not week-end) 1:30 am - Whole chain lasts around 10 minutes	- RCS systems - From Propagation Layer to cubes - EHS standard and legal compositions.
EHS Revision Documents	PC_EHS_REV _DOC	SLAVE	- launched by EHS_TRANSACI ONAL - Daily (not week-end) - Start at around 5 am - Whole chain lasts around 10 minutes	- RCS systems - From datasources to cubes - EHS revision documents data on PURE_SUB
EHS: TD - D - Document Generation	PC_EHS_DG_ MAIN_001	SLAVE	- aunched by EHS_TRANSACI ONAL - Daily (not week-end) - Start at around 6:30 am - Whole chain lasts around 30 minutes	- RCS systems - From datasources to cubes - EHS Reports header
EHS: BRC - D - Document Generation Broadcasts	PC_EHS_DG_ BCAST_001	SLAVE	Not scheduled	- RCS systems - Only broadcasts of EHS Documents generation report

EHS: TD - D - Report Shipping	PC_EHS_RS_MAIN_001	SLAVE	- launched by EHS_TRANSACI ONAL - Daily (not week-end) - Start at around 6:30 am - Whole chain lasts around 20 minutes	- RCS and Solvay systems - From datasources to cubes - EHS Report shipping orders
EHS Daily MD Attributes	EHS_MASTER_DATA	SLAVE	- launched by EHS_TRANSACI ONAL - Daily (not week-end) - Start at around 3 am - Whole chain lasts around 2h30 minutes	- RCS systems - From datasources to cubes - EHS Master Data attributes (0EHS_SPEC, C_PROD, C_OBJEK) + Propagation Layer DSO for EHS KPI and Revision documents from datasource 0EHS_SPEC_ATTR. + DSO for REACH characteristics multi values - Infopackage 1CL_OEHS002 FULL lasts 2h!
EHS Daily MD Text	EHS_MASTER_DATA_TXT	SLAVE	- launched by EHS_TRANSACI ONAL - Daily (not week-end) - Start at around 5:30 am - Whole chain lasts around 45 minutes	- RCS systems - EHS Master Data texts (include Phrases extraction)

Data Quality Control

Operational Documentation

Procedures

<Describe the recurring procedures needed to operate the application (eg. start/pause/terminate/restart the app processes, data preparation, data ingestion, ETL, data visualization, data export, other manual activities)>

Scheduling

<Describe the scheduling in place for the application (eg. existing jobs, trigger time/event based, dependencies)>

Monitoring

<Describe the monitoring checks to confirm the application is performing well (eg. check the overall status, check performance metrics like runtime /data volume/memory/disk/CPU, maintain and react to alerts/notifications)>

Error Handling

<Describe how to handle errors (eg. error codes, description and respective resolution, alert users)>

Known Bugs

<List the existing bugs, its criticality, workarounds and resolution plan.>

Roadmap

- A new report based with Legal and Standard compositions should be delivered soon in the EHS - Admin report menu.
- Broadcasts "SDS generation report to Prod Steward" to reschedule every months (instead of quaterly).