Technical Documentation - Demand & Planning - Forecast report

Access Management

Roles & Access

List of application role + menu role and explanation if we have several applications role with specials rules.

Role Code	Role Description	Explanation
ZP2_RCS_DP_A02	Demand Planning - Dynasys	Authorization object **ZP2_DPS**
ZBI_RCS_DP_A02	Demand Planning - Dynasys	Authorization object **ZBI_DPS**
ZBI_RCS_DP_A03	Demand Planning - Dynasys Keyuser	Authorization object **ZBI_DPS_K** • gives access to transaction ZMAINT_MATPLANT + ZMAINT_MATVENDOR • gives access to Application Area **IA_DPS_DYNASYS**
ZR_RCS_CA_M52	DP - DiP/PP - Dynasys	Role menu for queries & workbooks.

Authorization Objects

List of authorization objects mandatory for the application.

Authorization object	Explanation
CPFCTR1_2	GBU role ZR_*_CA_P05

DataFlow

Overview

Technical Rules on Workbench

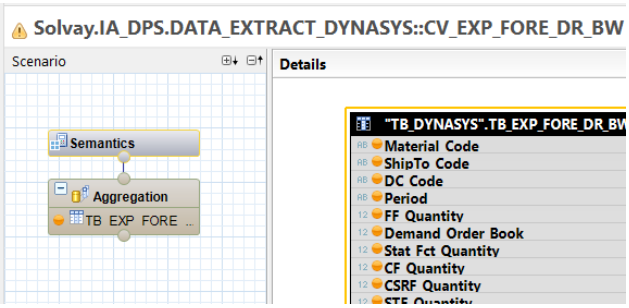
MVDYN11 - DYN - Reporting is composed by 16 cubes, but only fw of them are still loaded:

Cube	Description	last loading (checked in 12.06.2023)
CRAPO002	APO - Global (Dynamic)	No data

CRAPO006	APO - Novecare (Snapshot History)	No data
CRAPO005	APO - Novecare (Snapshot)	No data
CRAPO008	APO - Polyamide Downstream (Snapshot History)	No data
CRAPO007	APO - Polyamide Downstream (Snapshot)	07.06.2020
CRAPO010	APO - Polyamide Upstream (Snapshot History)	No data
CRAPO009	APO - Polyamide Upstream (Snapshot)	07.06.2020
CRAPO012	APO - Special Chemicals (Snapshot History)	No data
CRAPO011	APO - Special Chemicals (Snapshot)	10.23.2020
CRAPO004	APO - Special Chemicals / Rare Earth (Snapshot History)	No data
CRAPO003	APO - Special Chemicals / Rare Earth (Snapshot)	10.23.2020
CRDYN11	DYN - Reporting (Dynamic)	12.06.2023
CRDYN14	DYN - Reporting PAX Historic	No data
CRDYN15	DYN - Reporting PV/PY/PV since 2019(OBS)	No data
CRDYN13	DYN - Reporting SnapShot	12.06.2023
CRLOG01	LOG - Reporting (Dynamic)	No data
CRLOG02	LOG - Reporting (SnapShots)	No data

CRDYN11

source data comes from hana calculation view CV_EXP_FORE_DR_BW based on table and view TB_EXP_FORE_DR_BW / VT_EXP_FORE_DR_BW.



TRSF : DTS_CV_EXP_FORE_DR_BW (Dynasys) -> DPDYN04

End routine: if in master data global filter C_GLBFILT for stream DPS and rule PROSPECTS the low value = X AND if the size of C_DYN_025 is > 11 then C_DYN_003 (Customer with System Extension) = C_DYN_025 (Ship-to (including Prospects) with extension). If low value is not equal to X, C_DYN_025 takes the 11 characters after the first seven and C_DYN_003 (Customer with System Extension) = C_DYN_025 (Ship-to (including Prospects) with extension).

ODSO DPDYN04 -> ODSO DBDYN20

Start routine defines the source system (logsys) with help of last character of C_DYN_005 (R = Rhodia, S = Solvay).

Fields routines:

- C_MATNR2 determined with module function CONVERSION_EXIT_MATN1_INPUT with field C_DYN_005 in input.
- 0DISTR_CHAN = two first characters from field C_DYN_006 (Distribution Channel with System Extension).
- C_DYN_GBU (BFC GBU for Dynasis) = C_DYN_003 (Customer with System Extension) without the last characters.
- C_SHIPTID (Ship-to party (Core)) = C_DYN_003 (Customer with System Extension) without the last characters.
- C_FLGMTH (Concerned Period (Flag)) = M
- 0UNIT (Unit of measure) = KG
- C_SAL_OFF (Sales Office) = DYN
- C_DOCTYP2 (Order document type) = DYN
- C_COMPCDE (Company code) = DYN

End routine:

C_DYN_010 & CPFCTR1_2 come from master data C_DYN_005. If no corespodance found with C_DYN_005, fields come from master data G_CWWE01.

CPFCTR2_2 & C_MAGNITU come from master data C_DYN_018 (internal filled with selection on field C_DYN_005), we check if in internal table we have data in function of fields C_DYN_018 =<RESULT_FIELDS>-/BIC/C_DYN_003 and C_DYN_005 =<RESULT_FIELDS>-/BIC/C_DYN_005. If we have a correspondance, master data C_MATPNT2 is read to fill field CPFCTR3_2. Else, CPFCTR2_2 & C_MAGNITU & CPFCTR3_2 are empty.

C_SHTCTRY comes from master data C_DYN_024.

C_SOLDID & C_SOLDTO come from master data C_DYN_014 (in function of field C_DYN_003).

C_PROD comes from master data C_MATNR2.

IECRA (G_CWWE01) for RCS records is searched from master data G_CWWE01 with the logsys and the division found in master data C_MATNR2 we we searched the C_PROD.

If IECRA is found, we read again master data G_CWWE01 with the IEACRA (and with CPFCTR1_2 and C_PFCTR2 not empty).

If record found, we fill fields C_DYN_010 with C_PFCTR2 from G_CWWE01 , CPFCTR1_2 with CPFCTR1_2 from G_CWWE01, CPFCTR2_2 with CPFCTR2_2 from G_CWWE01 and CPFCTR3_2 with CPFCTR3_2 from G_CWWE01 (else fields are empty).

TRSF: DBDYN20 (DynaSys) -> CRDYN11

Start routine:

Internal table itb_c_dyn_017 is filled with data from master data itb_c_dyn_017 where C_DYN_017 = SOURCE_PACKAGE-/bic/C_DYN_003 and C_DYN_006 = SOURCE_PACKAGE-/bic/C_DYN_006.

Internal table itb_C_GBR14 is filled with data from master data C_GBR14 in function of fields logsys, C_PROD, CPFCTR1_2 and C_SHIPTID.

Field routines:

C_DYN_017 & C_DYN_021 If in master data global filter C_GLBFILT for stream DPS and rule PROSPECTS the low value is empty, field equal C_DYN_025 else field = C_DYN_003.

C_SOTCTRY Sold-to Country comes from master data C_SOLDTO

End routine

Fields C_SALEMP & C_ZIPART come from internal table itb_c_dyn_017 (or fields are empty).

Field C_GBR4 comes from internal table itb_C_GBR14 or equal source field C_SHIPTID.

CRDYN13

TRSF: DTS_CV_EXP_FORE_BW (DynaSys) -> DPDYN01

source data comes from hana calculation view CV_EXP_FORE_BW based on table and view TB_EXP_FORE_BW / VT_EXP_FORE_BW.

In start routine the records with SHIPTO_CODE with size > 11 are deleted.

Field routine: C_FCSTMTH (End of Month View) comes from master data global filter (only if C_ACTIVE = Y):

Table: /BIC/PC_GLBFILT

/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFILT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE
DPS	PHOTO_MTH	001	A		To fix the SnapShot month (end of month) YYYYMM	I	EQ	201703		N

ODSO DPDYN01 -> ODSO DBDYN13

For C_DYN_010, CPFCTR1_2, CPFCTR2_2, C_MAGNITU, C_SOLDID and C_SOLDTO and IECRA it's the same rules as transformation ODSO DPDYN04 -> ODSO DBDYN20 .

C_SHTCTRY comes from master data C_CUST_ID.

For IECRA, we search for Solvay source system, not Rhodia.

ODSO DBDYN13 -> ODSO DBDYN13 Compute GH/BIAS 1

End routine:

Data in source package are stored in internal table ITB_GH (sorted in descending mode in function of fields C_DYN_003, C_DYN_005, C_DYN_006, LOGSYS, CALMONTH and C_FCSTMTH) and records with same C_DYN_003, C_DYN_005, C_DYN_006, LOGSYS and CALMONTH are deleted to avoid duplcate entries.

Then we search for each reords of source package if there are a correspondance in ITB_GH (with keys C_DYN_003, C_DYN_005, C_DYN_006, LOGSYS and CALMONTH)

If correspondance found:

- K_BIASM1 = (/BIC/K_FFM1QTY - <FS_GH>-/BIC/K_GHQTY) in absolute value.
- K_BIASSTF = ABS(<RESULT_FIELDS>-/BIC/K_STFM1QT - <FS_GH>-/BIC/K_GHQTY)
- K_BIASSTA = ABS(<RESULT_FIELDS>-/BIC/K_RFM1QTY - <FS_GH>-/BIC/K_GHQTY)
- K_DYN_278 = ABS(<RESULT_FIELDS>-/BIC/K_DYN_277 - <FS_GH>-/BIC/K_GHQTY)
- K_DYN_279 = ABS(<RESULT_FIELDS>-/BIC/K_SHFM1QT - <FS_GH>-/BIC/K_GHQTY)

For C_DYN_010, CPFCTR1_2, CPFCTR2_2, C_MAGNITU, C_SOLDID and C_SOLDTO and IECRA it's the same rules as transformation ODSO DPDYN04 -> ODSO DBDYN20 .

C_SHTCTRY comes from master data C_CUST_ID.

TRSF: DBDYN13 (DynaSys) -> CRDYN13

Same rules as transformation TRSF: DBDYN20 (DynaSys) -> CRDYN11.

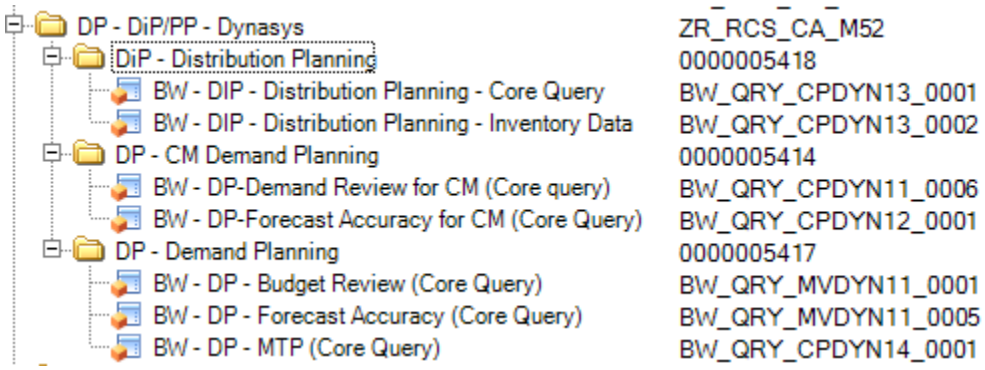
Reporting

Queries

Query	Description
BW_QRY_MVDYN11_0001	BW - DP - Budget Review (Core Query)
BW_QRY_MVDYN11_0003	BW - DP - Demand Review for Logility (Core query)
BW_QRY_MVDYN11_0005	BW - DP - Forecast Accuracy (Core Query)
BW_QRY_MVDYN11_0006	BW - DP - Demand Review (Core query)
BW_QRY_MVDYN11_0007	BW - DP - Segmentation Report (Core Query)
DI_BW_QRY_MVDYN11_0001	BW - DP - Budget Review (Core query)
QV_BW_QRY_MVDYN11_0005	BW - DP - Forecast Accuracy (QV query)
QVSBS_BW_QRY_MVDYN11_0001	BW - DP - Demand Review for SBS Dashboard (QV)

Workbooks BW_WBK_DPS_0001 & BW_WBK_DPS_0001 contain query BW_QRY_MVDYN11_0001.

Role menu queries



Role menu workbooks:

Dependencies with other applications

We should have the information where the application is sending or receiving information (e.g. APD open hub)

Data Loading

Info Providers and objects loaded

Detail of process chain, list + link between or special event done for the loading

Main Process Chain	Final Provider Loading	Frequency	Time start
PC_DPS_DYNASYS_09 DPS Dynasys: META - M - 6.Reporting DynaSys (Snapshots)	DPDYN01 DBDYN13 CRDYN13	1 time per month the 6th day of month	06:00 am
PC_DPS_DYNASYS_15 DPS Dynasys: META - D - 6.Reporting DynaSys (Dynamic KPIs)	DPDYN04 DBDYN20 CRDYN11	Hourly, everyday with decision.	Hourly Decision linked to values in master data global filter Table: /BIC/PC_GLBFILT /BIC/C_STREAM /BIC/C_RULE /BIC/C_GLBFILT OBJVERS CHANGED /BIC/C_DESC /BIC/C_SIGN /BIC/C_OPTION /BIC/C_LOW /BIC/C_HIGH /BIC/C_ACTIVE DPS PCH_DYN15 001 A PC_DPS_DYNASYS_15 => 1st load (HHMMSS) I BT 040000 041500 N DPS PCH_DYN15 002 A PC_DPS_DYNASYS_15 => 2nd load (HHMMSS) I BT 070000 071500 Y DPS PCH_DYN15 003 A PC_DPS_DYNASYS_15 => 3rd load (HHMMSS) I BT 140000 141500 Y DPS PCH_DYN15 004 A PC_DPS_DYNASYS_15 => 4th load (HHMMSS) I BT 180000 181500 Y DPS PCH_DYN15 005 A PC_DPS_DYNASYS_15 => 5th load (HHMMSS) I BT 230000 231500 Y DPS PCH_DYN15 999 A PC_DPS_DYNASYS_15 => For tests only !!!! I BT 070000 180000 N DPS PCH_DYN15A 001 A Bypass decision bloc 1 in chain PC_DPS_DYNASYS_15 I EQ N N DPS PCH_DYN15M 000 A Sub Chain PC_DPS_DYNASYS_33 => 1st load (HHMMSS) I BT 080000 081500 Y DPS PCH_DYN15M 001 A Sub Chain PC_DPS_DYNASYS_33 => 1st load (HHMMSS) I BT 090000 091500 Y DPS PCH_DYN15M 002 A Sub Chain PC_DPS_DYNASYS_33 => 1st load (HHMMSS) I BT 100000 101500 Y DPS PCH_DYN15M 003 A Sub Chain PC_DPS_DYNASYS_33 => 1st load (HHMMSS) I BT 110000 111500 Y DPS PCH_DYN15M 004 A Sub Chain PC_DPS_DYNASYS_33 => 2nd load (HHMMSS) I BT 140000 141500 Y DPS PCH_DYN15M 005 A Sub Chain PC_DPS_DYNASYS_33 => 3rd load (HHMMSS) I BT 180000 181500 Y DPS PCH_DYN15M 006 A Sub Chain PC_DPS_DYNASYS_33 => 4th load (HHMMSS) I BT 230000 231500 Y

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

<List past & future evolutions for the application (including links to MED/FSD/TSD>