BW - Recipe

General presentation

Objective of the application

The objective of the application is to extract from **WP1 SAP systems** Recipe data. The goal is to have the link between the production version (Plant@Material) and the activities by product line.

The data are extracted from MAPL, PLKO, PLPO, CRHD tables.

Then data are consumed by Dynasys application by generated flat file.

There is no query developped for the reporting.

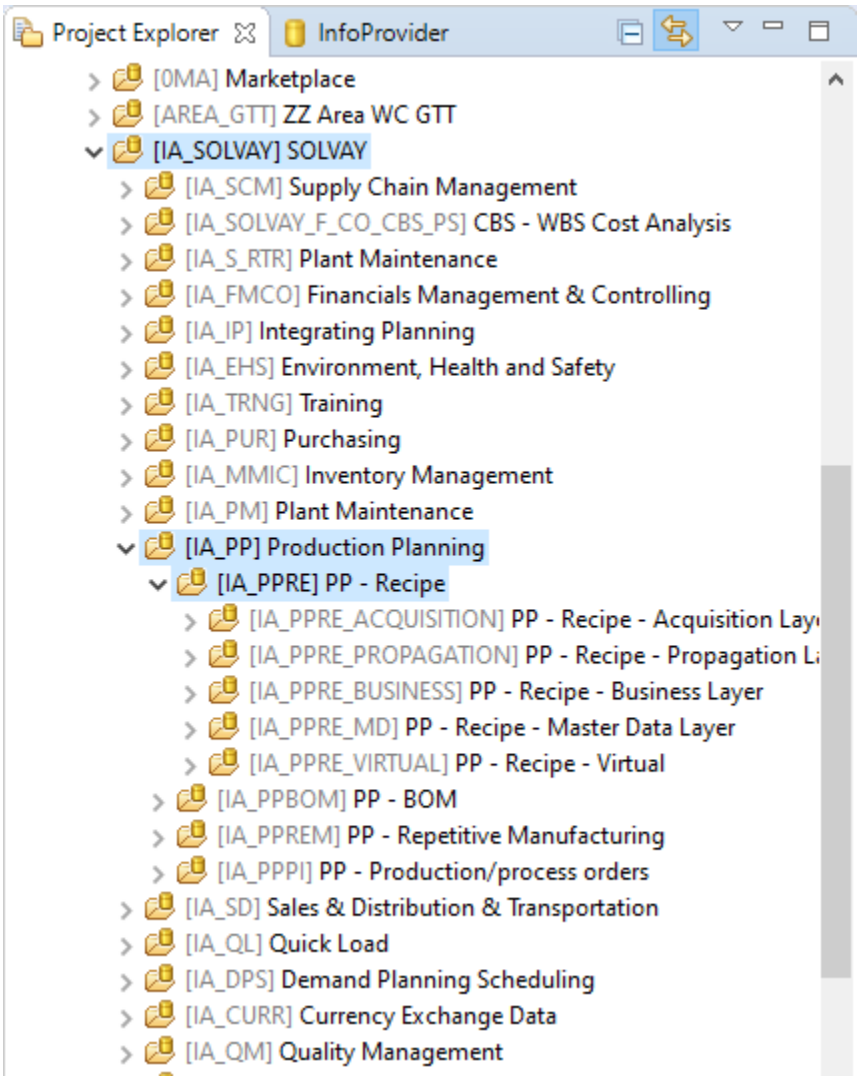
Usage information

Nu mber of users: tbd

Critical period: none

Geographical perimeter: worldwide

InfoArea:



History

This application is linked to a need of Dynasy Tool. Every week a manual extraction is done of Master recipe Data from WP1 SAP system. The goal is to extract these data from SAP to BW and generate automaticaly Master Recipe data by flat file and send this file to Dynasys for import.

Roles & Access

Roles and access

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

Role Code	Role Description	Explanation

Authorization objects

List of autorisation objects mandatory for the application.

Authorization object	Explanation

Dataflow overview

Reporting documentation drive folder:

https://drive.google.com/drive/folders/18VbVRgRTsredyh89a_qSECY7E0yzSKJJ

Dataflow overview :

https://drive.google.com/file/d/1u9DaP5-AzjNayHLtwYRACs8Y-xJeQNysj1EdPO1FR1k/view

Functional and Technical rules on Workbench + Reporting

Rules & Explanations

Assignment of Task Lists to Materials

ADSO **APPPRE01** is loaded by the datasource **DTS_ZBW_V_MAPL.** This datasource used the view **ZBW_V_MAPL** on WP1 for the data extraction (Join of MAPL/PLKO and PLAS table).

The mapping between the ADSO and the datasource is direct.

In this ADSO we'll have the link between the **Production Version** (At Material@Plant level) and the different **recipe** (0PLNNR, Key for Task list group).

For each recipe we'll have a **Base Quantity** of produced Material and associated Base Unit of Measure.

There are 2 fields used to filter data during extraction and loading on BW :

- AEDAT (Modification Date MAPL-AEDAT)
- ANDAT (Creation Date MAPL-ANDAT)

Task List - Operation / Activity

ADSO **APPPRE02** is loaded by the datasource **DTS_PM_TASK_LIST_OPER_ATTR.**

This datasource used the table **PLPO** on WP1 for the data extraction.

The mapping between the ADSO and the datasource is direct.

In this ADSO we'll have the list of **operations (activities)** and their **duration** for each **recipe.**

There are 2 fields used to filter data during extraction and loading on BW :

- AEDAT (Modification Date MAPL-AEDAT)
- ANDAT (Creation Date MAPL-ANDAT)

There is also the ADSO **ABPPRE01** loaded in **delta mode** from the previous **APPPRE02** (mapping direct)**.**

This one is used for the Dynasys interface (projection of this ADSO is used in a Calculation View).

Link Work Center / Object ID

The master data **C_WKCTRID** contains the link between the **Object ID of the ressource** associated to an operation and the **work center**.

It is loaded by the datasource **DTS_ZBW_V_CRHD** from WP1 SAP system. This datasource is based on the view **CRHD_V1.**

Control Key

An operation is associated to a **Control Key** and for the the Dynasys need we are using a filter on to keep only the Control Key flagged as scheduled.

The information is loaded and stored in the master data **C_STEUS** (Control Key) from the datasource **DTS_ZBW_T430.**

This datasource is based on the table **T430** (Control Key attributes)

Dependencies with other applications

The Dynasys calculation view **CV_DY_RECIPE_CAPA** uses projections of data based on following object of Recipe Application **:**

- ABPPRE01
- APPPRE01
- C_WKCTRID
- C_STEUS

More details here.

The result of the calculation view is loaded in ADSO APDPDY10 & ABDPDY59.

Recipe data are consumed by Dynasys tool using the generated flat file **DYS_BW_RECIPE.csv** from the ADSO **ABDPDY59.**

Data loadings

Info providers and objects loaded

Scope of data loaded

Both propagation layer ADSO APPPRE01 & APPPRE02 are loaded by 2 FULL DTPs.

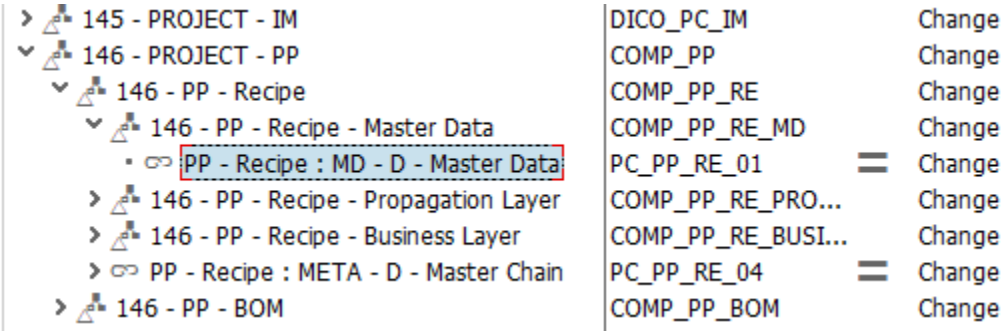
The fisrt one is based on creation date and the second on modification date of the record in respective source table.

We load for each of them from current date to current date - 7.

Note that DTP are different for each objects.

Master Data process chain

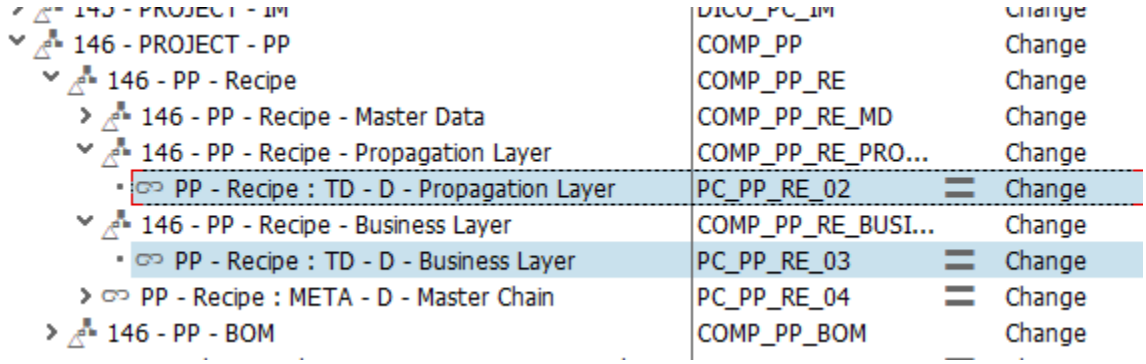
Recipe Master Data are loaded by process chain **PC_PP_RE_01.**



Material Task List & Operation / Activity process chain

ADSO are loaded by following process chain :

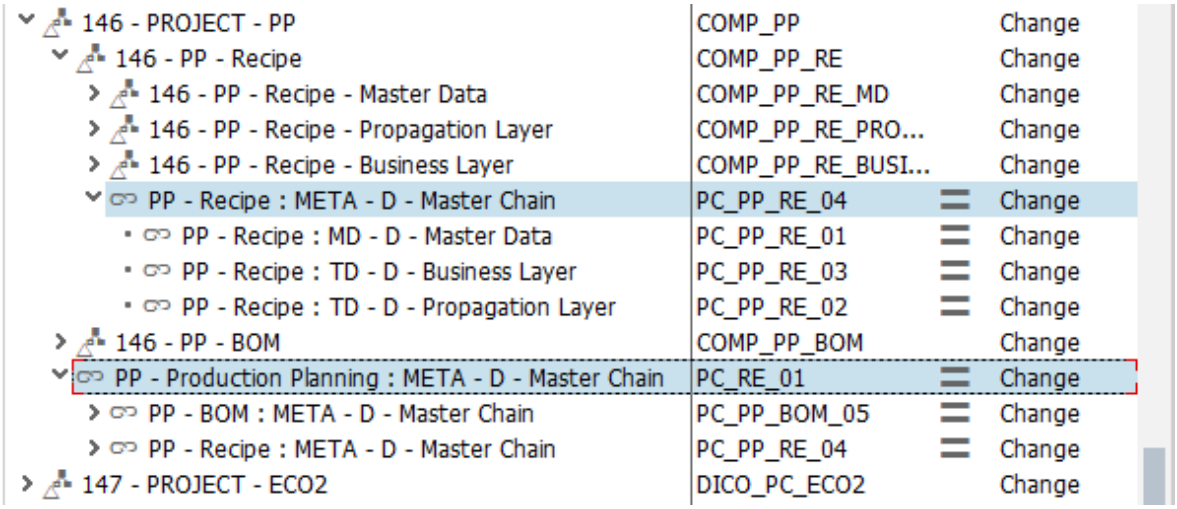
- Propagation Layer : **PC_PP_RE_02**
- Business Layer : **PC_PP_RE_03**



Master Chain

A global Master process chain load all the **Recipe application** : **PC_PP_RE_04**

This master chain is part of a global chain with **BOM application : PC_RE_01**



Today the process chain **PC_RE_01** is scheduled at **00:30 (CET)**.

Loading frequency

Daily loading

Average performance

See below init data loading (full without filters) performed end of June 2021 :

ADSO	Nb records	Time
APPPRE01	942.546	18m 9s
APPPRE02	1.356.968	6m 46s

Record Keeping

Reporting

Queries End User Documentation

Main queries

Main functionalities

Broadcast

Maintenance

Known bugs

Recurring procedure

Planned Evolution

Today we have only data from WP1 SAP system, PF1 is planned to be added but rules will be different.