

# BW - PP - RE - Recipe

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## General presentation

### Objective of the application

The objective of the application is to extract from **SAP Vault source system** Recipe data (operation linked to a ressource, setup time, machine time...).

Then these data are used for the application [BW - DPS - Forecast Vs Booking / Component](#) and in the query [BW-DP-Labor Planning Tool Interface \(Core query\)](#).

**Tool Leader:** Lei Shen

**IT leader of the application:** Lei Shen (PP), Craig Wanamaker (BW)

**Name of project:** Solstice

**PMO Project:** 8612 Solstice AERO

**Reporting Coordinator:** Lei Shen

### Usage information

**Number of users:** tbd

**Critical period:** none

**Geographical perimeter:** worldwide

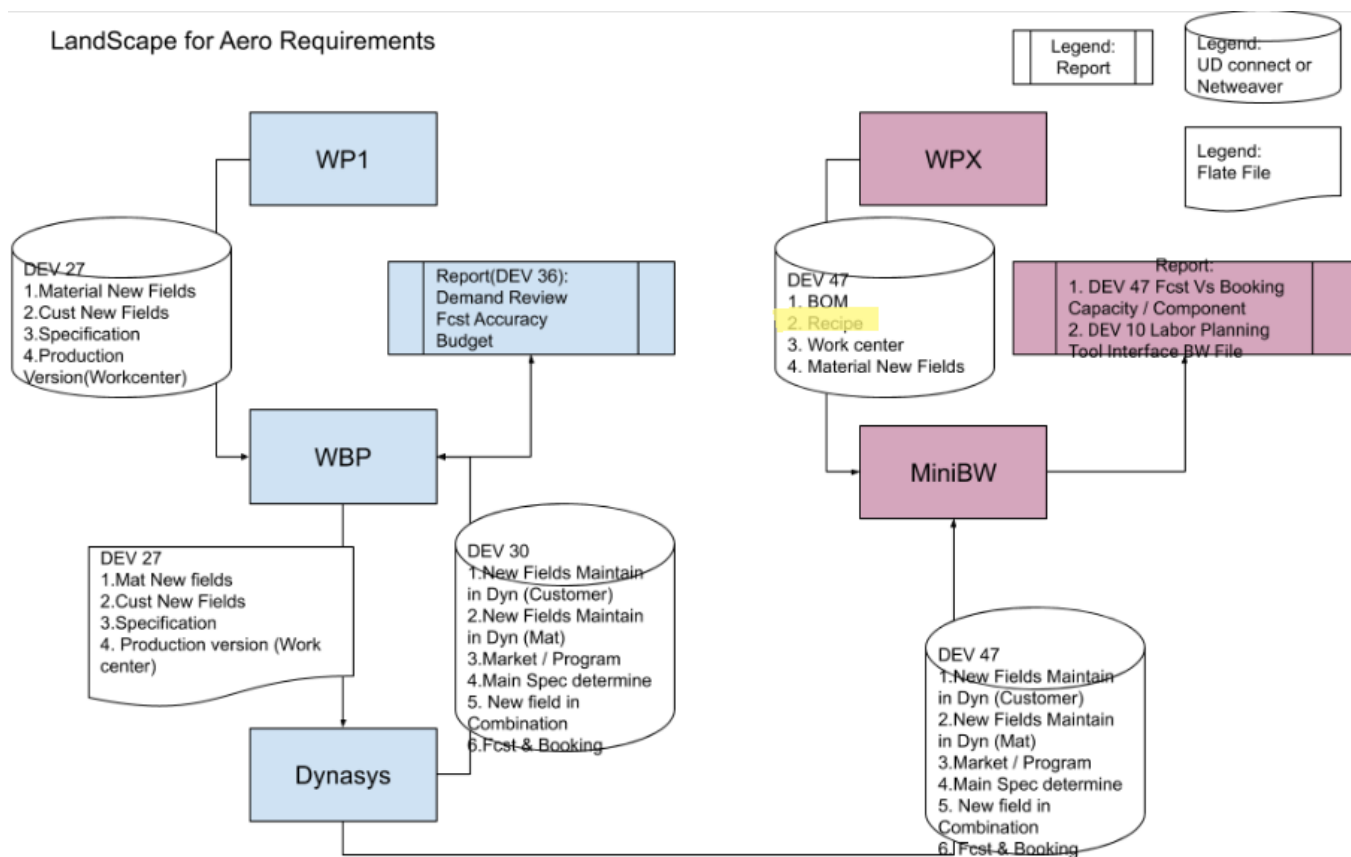
**InfoArea:**

- ▼ BW Repository
  - > [IA\_RHODIA] RHODIA
  - > [IA\_SOLVAY] SOLVAY
  - ▼ [IA\_PP] Production Planning
    - > [IA\_PP\_BO] Bill of Material (BOM)
    - ▼ [IA\_PP\_RE] Recipe
      - > [IA\_PP\_RE\_VIRTUAL] Recipe Virtual
      - > [IA\_PP\_RE\_BUSINESS] Recipe Business
      - > [IA\_PP\_RE\_PROPAGATION] Recipe Propagation
      - > [IA\_PP\_RE\_ACQUISITION] Recipe Acquisition
      - > [IA\_PP\_RE\_MD] Recipe MasterData

## History

This application is linked to the Solstice global project and this specific need was named "DEV47- Other MiniBW request for planning team".

MiniBW (CPX) dedicated platform was created for Aero Requirements about Solstice project.



## 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/1Y2OmoBqD6VWwpmUPnuiQ6ZFm0hwIPruA>

### Dataflow overview

## Functional and Technical rules on Workbench + Reporting Rules & Explanations

### Specification Document

Sheet "Dim\_Recipe" :

### Key Figures

There are 3 key figures used in this application:

1. Operation Quantity (Recipe Base Quantity)
2. Machine Time
3. Setup Time

SAP T-CODE : C203 to display these key figures on SAP.

Display Master Recipe: Operation

Recipe group: 50000066 CYCOM® 949 STRUCTURAL PREPREG

Recipe: 1 Plant: 8364 7180 Anaheim

Activity: 0120 Ph Production

Sup. operation: 0100 LongText Standard text key

General data Standard values User fields Process instructions Relationships Secondary resources Material components Administrative data

Control key: ZCS1 RCS PP/PI

Base Quantity: 2.204 LB

Charge Quantity: 1 LB Equals Operation Qty: 1 LB

Resource: AAH001 Tape Line

Plant: 8364

|                  | Duration | Un | Activity Type |
|------------------|----------|----|---------------|
| Setup Time (h)   | 2,000    | H  |               |
| Machine Time (h) | 10,000   | H  | MACHI         |
| Extra person     | 0,000    |    |               |
| Labour Time (h)  | 0,000    | H  | MANHO         |
| AMO (Time)       | 0,000    | H  | MACHI         |

☐ Flex. duration

They are loaded from SAP Vault source system with the datasource **DTS\_ZBW\_V\_PLPO** (Task list - operation/activity ) based on table **PLPO** ans stored in first level ADSO **AAPPRE02**.

**BOM component** is kept from **STPO** table and added to the datasource structure (join between STPO and PLPO table with PLMZ table).

**Recipe Base quantity** is converted in Base Unit of Measure of the BOM component previously mentionned.

This conversion is done in class **ZDTS\_ZBW\_V\_PLPO**.

The datasource is configured as **Generic Delta** based on specific field **AEDAT**.

**Data are filtered** between acquisition and propagation level on field **Control Key = ZCS3**.

## Link Material - Recipe

Key figures previously submitted are linked to a **Recipe Group**. To be used in the application [BW - DPS - Forecast Vs Booking / Component](#), we need this information at material level.

To do that we need the link between Material and Recipe group. This link is stored in **MAPL** SAP table.

BW Extractor **DTS\_ZBW\_V\_MAPL** is based on MAPL table. **A join with MKAL table** (Production Version for Material) has been added to filter only on **production version = A001**.

The result of the extraction is stored in **ADSO APPPRE01**.

## Dependencies with other applications

Capacity data are used in application [BW - DPS - Forecast Vs Booking / Component](#).

## Data loadings

### Info providers and objects loaded

#### Transactionnal Data

There are 2 process chain :

- Acquisition Layer : **PC\_PP\_08**
- Propagation Layer : **PC\_PP\_11**

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| ▼ 100 - PROJECT - PP                                         | DICO_PC_PP         |
| > 100 - PP - Obsolete                                        | DICO_PC_PP_OBSO... |
| > 100 - PP - Masterdata                                      | DICO_PC_PP_MD      |
| ▼ 100 - PP - Acquisition Layer                               | DICO_PC_PP_ACQU... |
| • PP: TD - D - Acquisition Layer - BOM (Vault)               | PC_PP_08           |
| • PP: TD - D - Acquisition Layer - Recipe (Vault)            | PC_PP_10           |
| ▼ 100 - PP - Propagation Layer                               | DICO_PC_PP_PROPA   |
| • PP: TD - D - Propagation Layer - BOM (Vault)               | PC_PP_09           |
| • PP: TD - D - Propagation Layer - Capacity Planning (Vault) | PC_PP_02           |
| • PP: TD - D - Propagation Layer - Recipe (Vault)            | PC_PP_11           |
| > 100 - PP - Business Layer                                  | DICO_PC_PP_BUSI... |

They are part of process chain **PC\_PP\_04** :

|                                                              |                        |
|--------------------------------------------------------------|------------------------|
| ▼ 100 - PROJECT - PP                                         | DICO_PC_PP             |
| > 100 - PP - Obsolete                                        | DICO_PC_PP_OBSOLETE    |
| > 100 - PP - Masterdata                                      | DICO_PC_PP_MD          |
| > 100 - PP - Acquisition Layer                               | DICO_PC_PP_ACQUISITION |
| > 100 - PP - Propagation Layer                               | DICO_PC_PP_PROPA       |
| > 100 - PP - Business Layer                                  | DICO_PC_PP_BUSINESS    |
| ▼ META - D - PP - Master Chain                               | PC_PP_04               |
| • PP: TD - D - Acquisition Layer - BOM (Vault)               | PC_PP_08               |
| • PP: TD - D - Acquisition Layer - Recipe (Vault)            | PC_PP_10               |
| • PP: TD - D - Business Layer - Capacity Planning (Vault)    | PC_PP_03               |
| • PP: TD - D - Propagation Layer - BOM (Vault)               | PC_PP_09               |
| • PP: TD - D - Propagation Layer - Capacity Planning (Vault) | PC_PP_02               |
| • PP: TD - D - Propagation Layer - Recipe (Vault)            | PC_PP_11               |

**PC\_PP\_04** is part of global **RSP\_DAILY** :

|                                                            |                   |
|------------------------------------------------------------|-------------------|
| ▼ 010 - DAILY - META Chains at fixed time                  | DICO_PC_DAILY_01  |
| > META - D - Daily Process Chains (Attr, Texts, Unit conv) | RSP_DAILY_GLOBAL  |
| ▼ META - D - Daily Process Chains (Transactional)          | RSP_DAILY         |
| > DPS CV Forecast Level by Level : META - D - Master Chain | PC_DPS_DYNASYS_09 |
| • DPS Dynasys : TD - D - Acquisition Layer                 | PC_DPS_DYNASYS_03 |
| • DPS Dynasys : TD - D - Propagation Layer                 | PC_DPS_DYNASYS_04 |
| • DPS Dynasys : TD - D - Business Layer                    | PC_DPS_DYNASYS_05 |
| > META - D - PP - Master Chain                             | PC_PP_04          |

## Loading frequency

Daily loading.

## Average performance

| Key Figure                           | Estimation |
|--------------------------------------|------------|
| ~ Average Process Chain Runtime      |            |
| ~ Average nb of rows loaded per load |            |
| ~ Total nb of rows loaded (if full)  |            |
| ~ Average Runtime for 10k lines      |            |

## Record Keeping

## Reporting

## Queries End User Documentation

### Main queries

There is a query BW\_QRY\_CPPPRE01\_0001 (Recipe / ProdVersion / Material Data Reporting) based on composite provider CPPPRE01 (Recipe - Virtual).

This query **was used for testing data** coming from SAP Vault source system **but it is not used and accessible by key users**.

### Main functionalities

### Broadcast

## Maintenance

### Known bugs

### Recurring procedure

### Planned Evolution