

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 resource, 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

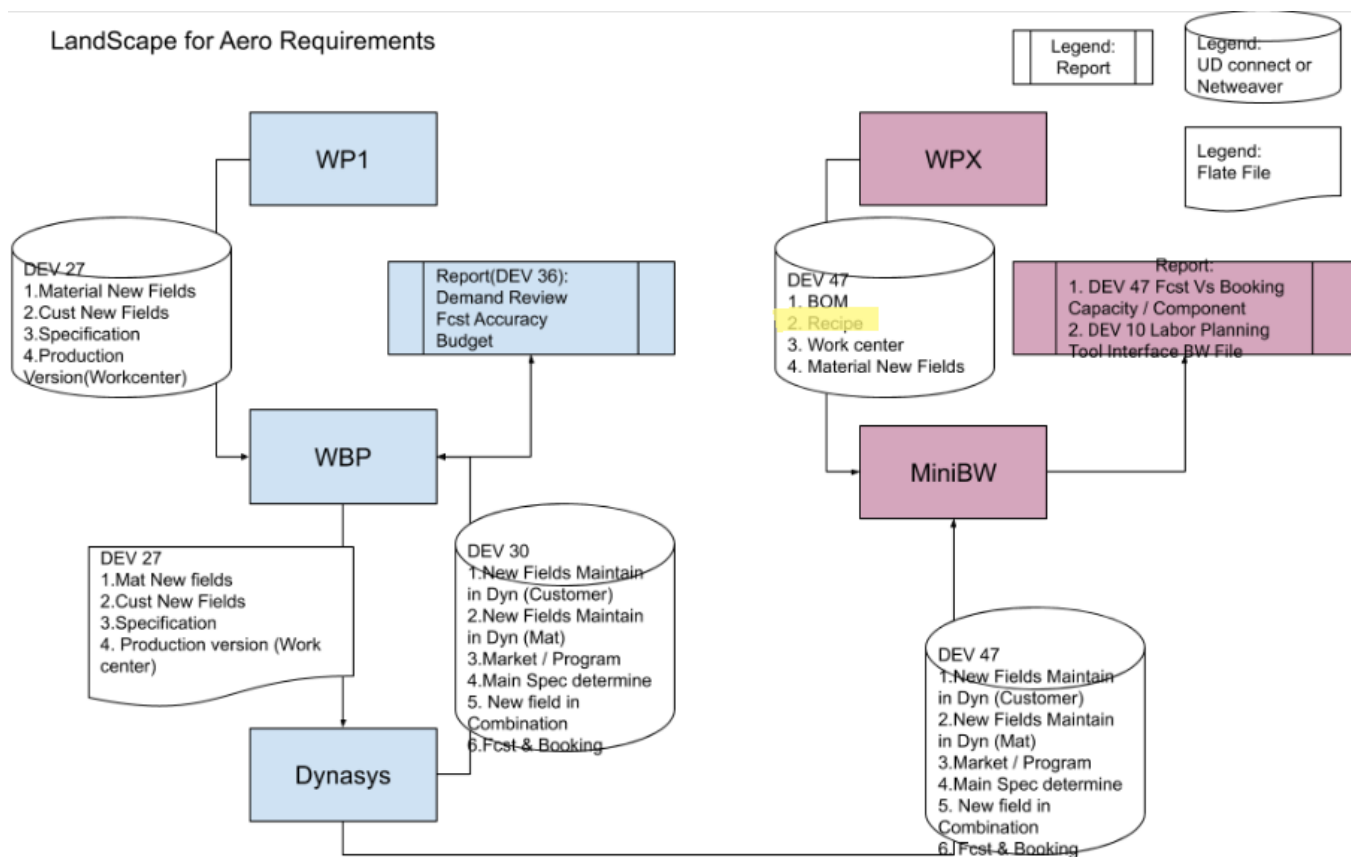
InfoArea:

- ▼ 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_CPPPPE01_0001 (Recipe / ProdVersion / Material Data Reporting) based on composite provider CPPPPE01 (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