

BW - PP - CP - Capacity Planning

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General presentation

Objective of the application

The objective of the application is to extract from **SAP Vault source system** Work center data and calculate capacity at week level & month level.

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

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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

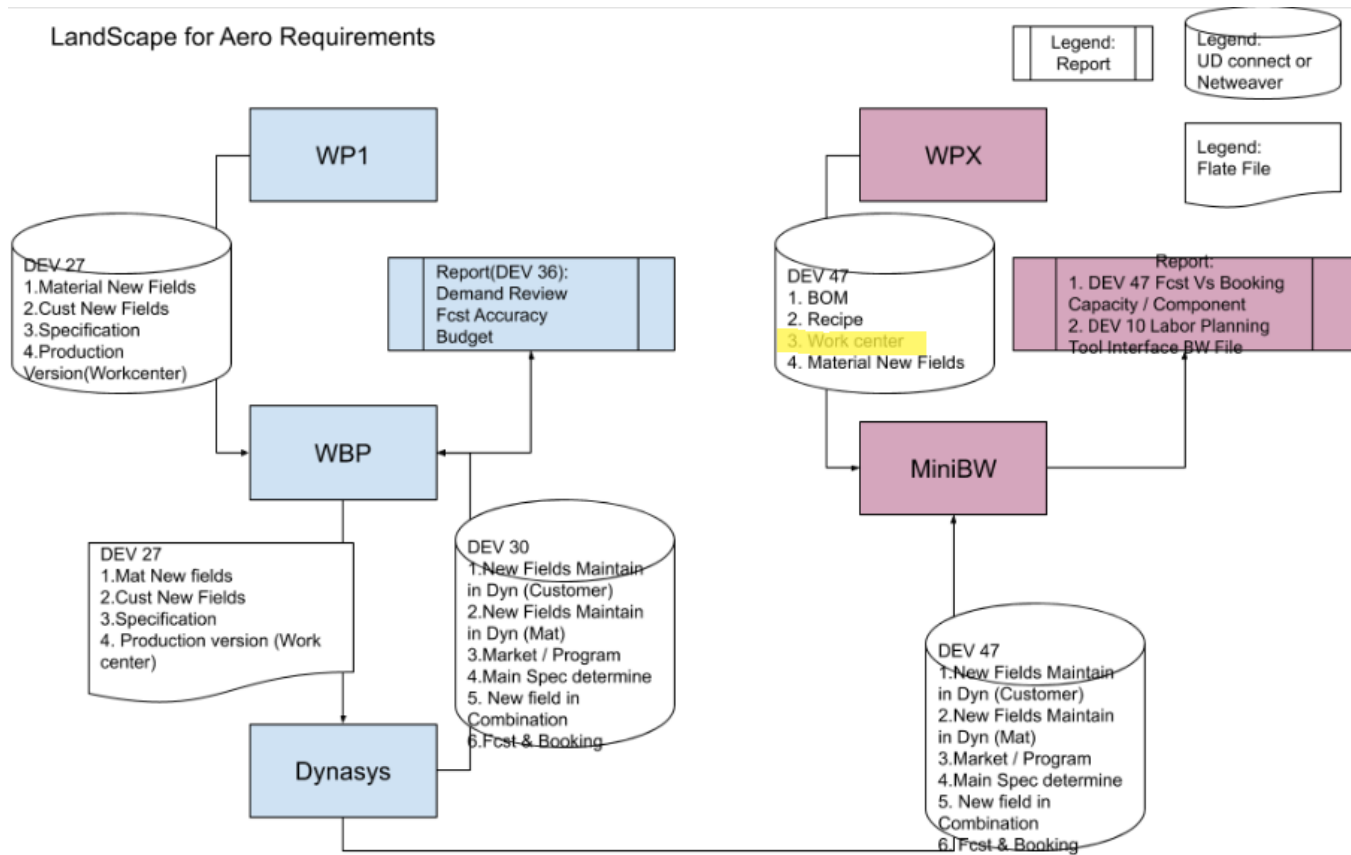
InfoArea:

- ▼ 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_CP] Capacity Planning
 - > [IA_PP_CP_VIRTUAL] Capacity Planning Virtual
 - > [IA_PP_CP_BUSINESS] Capacity Planning Business
 - > [IA_PP_CP_PROPAGATION] Capacity Planning Propagation
 - > [IA_PP_CP_ACQUISITION] Capacity Planning Acquisition
 - > [IA_PP_CP_MD] Capacity Planning 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_Resource" & "Dim_ProdVersion" :

Available capacity calculation

There are 2 ADSO following the calculation level :

- Capacity Planning - Weekly (ABPPCP02)
- Capacity Planning - Monthly (ABPPCP03)

Both ADSO are loaded by the same datasource **DTS_DPS_ZWPPT042** based on SAP (Vault) table **ZWPPT042**.

Calculation is done in **end routine of each transformation** between ADSO and datasource **by reading ADSO APPPCP01** (Interval of Available Capacity) with function module **Z_WBW_READ_KAZY_2** (duplication and adaptation of existing one on WBP BW system).

There are 2 key figures calculated :

- **0STANDCAP** : Available capacity (constraint) => Available capacity of work center in Period - Shut Down
- **K_CAPUNCO** : Available capacity (unconstraint) => Available capacity of work center in Period

This ADSO (APPPCP01) is loaded by the datasource **DTS_DPS_KAZY** based on function module **Z_WBW_DTS_DPS_KAZY** (duplication and adaptation of existing one on WP1 SAP system).

The capacity loaded in APPPCP01 is reported in **secondes for a defined weekday**, then it is calculated in **hours** in ABPPCP02 (by week) & ABPPCP03 (by month).

Dependencies with other applications

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

Data loadings

Info providers and objects loaded

Master Data

- **Work Center Master Data** is loaded by following process chain :

◦ Attributes : PC_GLOBAL_ATTR_02	
▼ 010 - DAILY - Attributs Chains	DICO_PC_DAILY_ATTR
▪ Global: MD - D - Attributes of IA_GLOBAL Master Data (Vault)	PC_GLOBAL_ATTR_02
▪ Global: MD - D - Material unit of quantity (DSO)	PC_GLOBAL_ATTR_04
▪ Global: MD - D - Unit Conversions for Material (Vault)	PC_GLOBAL_ATTR_03
▼ Global: META - MD - D - Master Data Attributes (Vault)	PC_GLOBAL_ATTR_01
◦ Texts : PC_GLOBAL_TEXT_02	
▼ 010 - DAILY - Text Chains	DICO_PC_DAILY_TEXT
▼ Global: META - TXT - D - Master Data Texts (Vault)	PC_GLOBAL_TEXT_01
▪ Global: TXT - D - Texts of IA_GLOBAL Master Data (Vault)	PC_GLOBAL_TEXT_02
▪ IMEP: TXT - D - Master Data Texts (Vault)	PC_CO_IMEP_09
▪ PP: MD - D - Masterdata Texts (Vault)	PC_PP_06
▪ Global: TXT - D - Texts of IA_GLOBAL Master Data (Vault)	PC_GLOBAL_TEXT_02

- **Production Version Master Data :**

◦ Attributes : PC_PP_05	
▼ 100 - PROJECT - PP	DICO_PC_PP
➤ 100 - PP - Obsolete	DICO_PC_PP_OBSOLETE
▼ 100 - PP - Masterdata	DICO_PC_PP_MD
▪ PP: MD - D - Masterdata Attributs (Vault)	PC_PP_05
▪ PP: MD - D - Masterdata Texts (Vault)	PC_PP_06
▪ PP: MD - OnDde - Masterdata Attributs/Texts (Vault)	PC_PP_07
◦ Texts : PC_PP_06	
▼ 100 - PROJECT - PP	DICO_PC_PP
➤ 100 - PP - Obsolete	DICO_PC_PP_OBSOLETE
▼ 100 - PP - Masterdata	DICO_PC_PP_MD
▪ PP: MD - D - Masterdata Attributs (Vault)	PC_PP_05
▪ PP: MD - D - Masterdata Texts (Vault)	PC_PP_06
▪ PP: MD - OnDde - Masterdata Attributs/Texts (Vault)	PC_PP_07

- **Capacity Planning Group Master Data :**

◦ **Texts : PC_PP_06**

All these previous process chain are part of **global RSP_DAILY_GLOBAL** :

▼ 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

Transactionnal Data

There are 2 process chain :

- Propagation Layer : **PC_PP_02**
- Business Layer : **PC_PP_03**

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	
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_BUSINESS	
PP: TD - D - Business Layer - Capacity Planning (Vault)	PC_PP_03	==

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
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~ 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 are 2 queries :

1. BW_QRY_CPPPCP02_0001 (BW - Labor Planning Tool (Core Query)) : This query is based on composite provider CPPPCP02 (Capacity Planning - Weekly).
More details here : [BW-DP-Labor Planning Tool Interface \(Core query\)](#)
2. BW_QRY_CPPPCP03_0001 (Capacity Planning Monthly data) based on composite provider CPPPCP03 (Capacity Planning - Monthly).
This query **was used for testing data** coming from SAP source system **but it is not used and accessible by key users**.

Main functionalities

Broadcast

Maintenance

Known bugs

Recurring procedure

Planned Evolution