

BW- E2E VC Dashboard : Industrial KPIs

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General presentation

Objective of the application

The objective of the application is to extract Key figures from several sources in order to calculate Industrial KPIs.

Then data will be consumed by Qlikview E2E Value Chain Dashboard.

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IT leader of the application: Craig Wanamaker (BW)

Reporting Coordinator: Diogo Paiva (IS SCM) / Meire Santos

Usage information

Number of users: tbd

Critical period: none

Geographical perimeter: worldwide

InfoArea:

- ▼ BW Repository
 - > [IA_SDP] pVelocity Info Area
 - > [RK] RK Test Area
 - > [AREA_SUN] Sunil
 - > [AREA_RHODIA] Rhodia
 - > [OEXT_MKT_DATA] External Market Data
 - > [NODESNOTCONNECTED] Unassigned Nodes
 - > [OHCM] Human Resources
 - > [IA_TR_FI] IA_TR_FI
 - > [BP_DEMO] demo ---Bin AND PROTOTYPE (IP)
 - > [OBCT_CB] Content Browser
 - > [OBWTCT] Technical Content
 - > [OBW] Business Information Warehouse
 - > [OPLM] Product Lifecycle Management
 - > [OSLL] SAP Global Trade Services
 - > [OSRM] Supplier Relationship Management
 - > [OSCM] Supply Chain Management
 - > [OINDUSTRIES] Industry Sectors
 - > [OMA] Marketplace
 - > [AREA_GTT] ZZ Area WC GTT
 - ▼ [IA_SOLVAY] SOLVAY
 - ▼ [IA_SCM] Supply Chain Management
 - ▼ [IA_SCM_E2E] SCM - E2E Dashboard
 - > [IA_SCM_E2E_BUSINESS] SCM - E2E - Business Layer
 - > [IA_SCM_E2E_MD] SCM - E2E - Master Data Layer
 - > [IA_SCM_E2E_PROPAGATION] SCM - E2E - Propagation Layer
 - > [IA_SCM_E2E_ACQUISITION] SCM - E2E - Acquisition Layer
 - > [IA_SCM_E2E_VIRTUAL] SCM - E2E - Virtual Layer
 - > [IA_SOLVAY_F_CO_CBS_PS] CBS - WBS Cost Analysis
 - > [IA_S_RTR] Plant Maintenance

Usage information

BW queries have been created to avoid data to Qlikview Dashboard.

It is also existing "Core Query" usable with Analyses for Office (AFO) Tool .

History

This application is linked to the E2E VC Dashboard global 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

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Authorization objects

List of autorisation objects mandatory for the application.

Authorization object	Explanation
GBU (CPFCTR1_2)	ZR_*_CA_P05

Dataflow overview

Reporting documentation drive folder:

<https://drive.google.com/drive/folders/0B0qn89R0RGdqYkZZOFZyYXIXVke>

Dataflow overview :

Functional and Technical rules on Workbench + Reporting

Functionnal Specification Document

BW Specification Document

Rules & Explanations

RFT (Right First Time) KPI

To calculate this KPI, we must get the result of the specific transaction **ZWPP24A_1** (display "List 3") from both source system WP1 and PF1.

The same specific datasource **DTS_ZBW_ZWPPT025** has been developed for each system.

It is based on table **ZWPPT025**.

All necessary fields to calculate the RFT KPI are in the current table expect the "Confirmed quantity". To get it, we use an append structure **ZABIW_ZWPP T025** and the respective class **ZDTS_ZBW_ZWPPT025**.

The appened filed is **ZCONFORM_QTY** (Conform quantity used to calculate T0).

The ABAP code used to determine the conform quantity is a copy of the one used in the transaction **ZWPP24A_1** (check the program **ZWPPR01400_1**).

RFT KPI (%) is determined by the formula **Conform Quantity / Total Batch Quantity**.

It is calculated directly on the Query.

There is a specific rule when the **Line Type is equal to 5 "By Product"** : **If conformed quantity = 0 and Total quantity > 0, RFT KPI is equal to 100%.**

Asset Utilization KPI

To calculate this KPI, we are using following both key figures coming from Dynasys :

- Actual Production
- Production Capacity

The extraction from Dynasys is done with the extractor **DTS_EXP_BW_SKU_BW** based on view **EXP_BW_SKU_BW**.

Key Figures are determined by the field **DATAFIELDTYPE_CO** :

- Actual Production : **DATAFIELDTYPE_CO = ACTUALPRODUCTION**
- Production Capacity : **DATAFIELDTYPE_CO = PRODUCTIONCAPACITY**

They are defined at **Material / Shipping Site / Ressource (Work center) / Period level**.

Utilization Rate KPI (%) is determined by the formula **Actual Production Quantity / Production Capacity Quantity**.

It is calculated directly on the Query.

Planning Adherence KPI

To calculate this KPI, we are using following both key figures coming from Dynasys :

- Actual Production
- Planned Production

The extraction from Dynasys is done with the extractor **DTS_EXP_BW_SKU_BW** based on view EXP_BW_SKU_BW.

Key Figures are determined by the field **DATAFIELDTYPE_CO** :

- Actual Production : DATAFIELDTYPE_CO = **ACTUALPRODUCTION**
- Planned Production : DATAFIELDTYPE_CO = **PLANNEDPRODUCTIONBYRESSOURCE**

They are defined at **Material / Shipping Site / Ressource (Work center) / Period level**.

Planning Adherence KPI (%) is determined by the formula **Actual Production Quantity / Planned Production Quantity**.

It is calculated directly on the Query.

Dependencies with other applications

The BW application provide data to **Qlikview E2E VC Dahboard application**.

Data loadings

Info providers and objects loaded

Scope of data loaded

Both ADSO AASCE2E01 and AASCE2E02 in acquisition layer are loaded by 2 FULL DTPs respectively from WP1.








We load records with **movement date >= 01.01.[Current Year - 2]**.

Average number of lines in **ZWPPT025** table (July 2020) :

- WP1 => 1.446.532 records

Transactional data process chain

Transactional data are loaded by the process chain **PC_SC_E2E_01**.

>  145 - PROJECT - IM	DICO_PC_IM	Change
>  146 - PROJECT - PP	COMP_PP	Change
>  147 - PROJECT - ECO2	DICO_PC_ECO2	Change
>  148 - PROJECT - S3: Reporting Tool	COMP_SPEND	Change
∨  149 - PROJECT - SCM E2E DASHBOARD	COMP_SCM_E2E	Change
•  SCM E2E : TD - D - Transactional Data	PC_SC_E2E_01	= Change
>  900 - PROJECT - Human Resources	DICO_PC_HR	Change

Loading frequency

Data are loaded **every day** at **12:00 AM CET**.

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

We load records with **movement date >= 01.01.[Current Year - 2]**, to keep the **last 3 years of data**.

Reporting

Queries End User Documentation

Main queries

Main functionalities

Broadcast

Maintenance

Known bugs

Recurring procedure

Planned Evolution

PF1 RFT KPI BW dataflow is build but not into production. We are waiting for implementation of transaction on PF1 SAP system.