Functional Documentation - SCREEN - (Logistics)

1.0 Overview

Business Context and Application Overview

The purpose of the application is to provide Solvay users a set of reports to follow-up Packaging costs.SCREEN is 2 Log & Pack Dashboards providing Cost transparency & key performances analysis.

This application provides one Single Source of Truth for Procurement, Package Owners, Supply Chain and Finance, but also for Business as well in GBU and at Excellence Center Costs reconciled with P&LProviding **Cost transparency** making links between flows from Plants to Customers, Vendors & Packages including Volumes Sold, delivered and handling units,....**Providing** un derstanding of **action impacts from various programs** (E2E program, & all GBU projects) Leading to a **standard way to assess performances**Supporting the **identification of process issues** and **quality of data**

- SCREEN - Effects : Volume, Mix and Price
- SCREEN - Logistics P&L reconciliation
- SCREEN - Packaging BW query
- SCREEN - Packaging Definitions
- SCREEN - Packaging P&L reconciliation

Application User Profile

Describe the key User profiles that exist for the application.

General role/Viewer role: *Procurement, Package Owners, Supply Chain and Finance, Business as well in GBU and at Excellence Center*

Approver role:

Target Users:

Procurement, Package Owners, Supply Chain and Finance, Busine ss as well in GBU and at Excellence Center

VERSION	DATE	MODIFIED BY	DESCRIPTION
0.01	dd.mm.yyyy	<Insert name>	Initial draft

Application Type

Data Product Type	☑ Dashboard ☐ Report ☐ Advanced analytics ☐ AI ☐ Others <specify which one>
Technologies	☑ BW ☐ Tableau ☐ Qliksense ☐ Talend ☐ Dataiku ☐ Others <specify which one>
Data Sources *Note: list of all applications and various environment*	☐ SAP PF1 (Production environment) ☐ SAP WP1 ☐ SAP PI1 ☐ BW (versions) ☐ iCare CRM ☐ CORE CRM ☐ Others <specify the name of the source>

2.0 Business Process

Capture the business process that the application supports . This can be describe through a process diagram or a business capability model

- **Scope**

  a. **Taxonomy** : Transport outbound (to customers), Warehousing costs (including shuttling) external vs internal (@ origin @ destination, …), …. Packaging & Packing costs, ….
  b. **Dimensions** : Zones, Sites (Origin,Destination), GBU, Country, Legal Entity, ……
  c. **Processes** to be re-defined + Data Clean-up (Cost center, shipment document….)
  d. **Analysis/Drivers** : volume shipped, volume purchased, distance, handling units etc….

Screen project is about variable costs so it is closely linked to E2E value chain program.

A team with a strong finance background:

- Project Manager for Corporate Controlling : Guylaine Vella
- Excellence Center / Project Leader - Logistics - End To End Value Chain Program : Charlotte Cornemillot
- Project manager for SBS : Fanny Maurice > Gregory Rigal
- Data & Reporting : Fanny Maurice
- SAP FICO + BW : Pierre-Eric Pontonnier (Pack) - Gregory Rigal (Pack & Log)
- Transport expert : Joëlle Hilaire

- RP Team : Jasmine Miller & Felipe Sarmento
- Costing expert : Burapong Soonphonrai

Who to contact?

- Gregory/Charlotte/Joelle for all questions related to Finance ratios & dimensions.
- Joelle for all questions related to Quantities and transport dimensions.

3.0 Application Feature Overview

Information about the existent Workbooks and the respective BW queries.

Reports	Definition	Prompts	BW Workbook Query	Query Technical Name

Package allocation

1. For shipment document:
    a. PF1:

Shipment type / Loading group

1. WP1:

Shipment cost type / Shipping type / Transportation group

1. For cost center : Follow Costa allocation.

data owner => PSL

4.0 Functional Specification

4.1 General Data/Calculations

This section will approach the concepts/definitions that will be used in all the reports and required to understand the data from the reports.

Could be specific fields, closing activities, additional information to work and understand the reports.

4.2 Process Detail

4.2.1. Report/Process Definition

Domain	<insert name>
Application	>insert name>
Provider	<insert name>
Existing Documentation	<insert link>

This section represents the process with detail information for the application. Can include specific or special cases, complex logics , calculations, flows, among others.

5.0 Non-functional Descriptions

Please populate the relevant section and delete those that are not applicable.

5.1 Usability

Usability is about the ease with which a User can learn to start using the solution and the ease with which they can use the system. In addition to ease of learning and ease of use, usability also includes areas such as ease of recall, error avoidance and handling, accessibility among others e.g., 99% of metadata entry Users who have use the Maintenance Dashboard should be able to change filters, extract etc., when required. Maintenance data will be centrally stored in the Google Cloud platform, which will be available to other applications e.g., and Dashboards if needed.

5.2 Regulatory Compliance

Software systems must comply with legal and regulatory e.g., GDPR requirements, this can change depending on country, organisation industry and / or region. The software systems must be secure from unauthorized access. The Maintenance Dashboard will comply with Solvay's regulations and compliance e.g., access only granted to authorized Users.

5.3 Security

Security refers to essential aspects that assure a solution and its components will be protected against unauthorized access or malware attacks. Important considerations related to security aspects of a system are User authentication, User authorization or User access privileges, data theft, malware attacks, data encryption, and maintaining audit trails, e.g., only Users with administrator access shall be able to create new accounts and assign data access privileges to the new accounts e.g.,

- *All data will be encrypted in the dashboard*
- *Only authorised Users / Administrative Users will be able to access data.*
- *Maintenance data will be split between either SCO or ECO, and Users will only have authority to one Entity data.*

5.4 Performance

Performance defines how fast a software system or a particular section of it responds to certain User actions under a certain workload. In most cases, this metric explains how long a User must wait before the target operation happens e.g., the page renders, a transaction is processed, etc., given the overall number of Users now. Performance requirements may describe background processes invisible to Users, e.g., backup and speed of data transfers.

5.5 Reliability

Reliability is the ability of a solution or its component to perform its required functions without failure under predefined conditions for a specified time / period. Reliability can possibly be specified in terms of average time system runs before failure occurs, percentage of operations completed successfully within a time / period, maximum acceptable failure probability, or number of failures within a period. Reliability aspects are in reference to (but not limited to) evaluation of the system to be considered as reliable, classification of reliability defining failures vs. regular failures, and the impact of failure on business operations. The Maintenance Dashboard will display data from the previous refresh of data.

5.6 Scalability

Scalability refers to the degree to which a solution can evolve to handle increased amounts of work. The increased amount of work could be in terms of the user base, transactions, data, network traffic, or other factors e.g., the system should be able to handle an additional load of a maximum of 5,000 Users every month for the next 6 months without any noticeable performance impacts.

5.7 Compatibility

Interoperability is the degree to which the solution is compatible with other components. It is a measure of how effectively the system interoperates with other software systems and how easily it integrates with external hardware devices.

Interoperability aspects to be discussed during elicitation are in reference to (but not limited to) software systems to be interfaced with along with data / messages to be exchanged and any standard data formats, hardware components to be integrated with, and any standard communication protocols to be followed e.g., Order Management system will push the order file into a secured file transfer protocol server from where it will be loaded into the system through a daily job. To guarantee between Google Cloud platform and SAP BW Queries e.g., BW_QRY_MVPMOR01_0002, Solvay has introduced a new tool called Xtract (Xtract).

5.8 Availability

Availability is the degree to which the solution is operable and accessible when required. It is a measure of time during which the system is fully operational e.g., available for use and sometimes included as a Service Level Agreement (SLA) considering its criticality to the business, e.g., the system shall be at least 99% available on weekdays between 09:00 to 18:30 Central European Time (CET).

5.9 Refresh of the Data

Frequency, data, and time of the data refresh in the data product.