Functional Template - GTBU Report

1.0 Overview

Business Context and Application Overview

Provide an overview of the app (e.g Domain, key processes, purpose of the app, etc)

The Digital Cost of Control Services application (known as **Gestion des Bordereaux de Travail en Usine (GTBU) in French)** is used to monitor activities of external contractors for maintenance works carried out on site installations in France.

GTBU is aimed at collecting and controlling works executed in the frame of contracts with subcontractors working for maintenance. The scope is mainly for complex “bordereau” in specific discipline : Scaffolding, Piping, INEL, Insulation, and for recording hours spent in Cleaning and Lifting operations.

With GTBU, contractors are able to declare themselves information on services delivered (types of service, quantities,...), by uploading structured Excel files through an integrated web interface. After a Solvay employee validates the files, they are integrated in SAP to generate the postings (service confirmation on PM work orders and cost postings in accounting). At the end of each month, these postings are used to determine the invoices.

The GTBU component is available both in ERP and RCS.

Application User Profile

Describe the key User profiles that exist for the application.

General role/Viewer role:

Approver role:

Roles and access

- Authorization role : ZR_RCS_PM_A02: Maintenance Orders Applications - End User role
- Role menu : ZR_RCS_CA_M08: PM - Plant Maintenance

Authorization objects

- Company Code

Target Users:

Around 200 users, only on France sites. Around 30 suppliers for the files upload, the other are approbators from maintenance teams on site

VERSION	DATE	MODIFIED BY	DESCRIPTION
0.01	05 Dec 2023	Abidemi Raji	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

Gestion du Travail au Bordereau Usine" - known as GTBU - comes as an optional component in SAP; integrated with Plant Maintenance (PM) and MM-Services.

External suppliers fill excel sheets after interventions on sites. The excel files are integrated in SAP systems WP1 400 and PF1 020 through a webdynpro application. Then the files are validated by the internal requester and financial controllers in SAP to create a service entry sheet. Then the data is integrated in BW to produce KPI for each type of intervention.

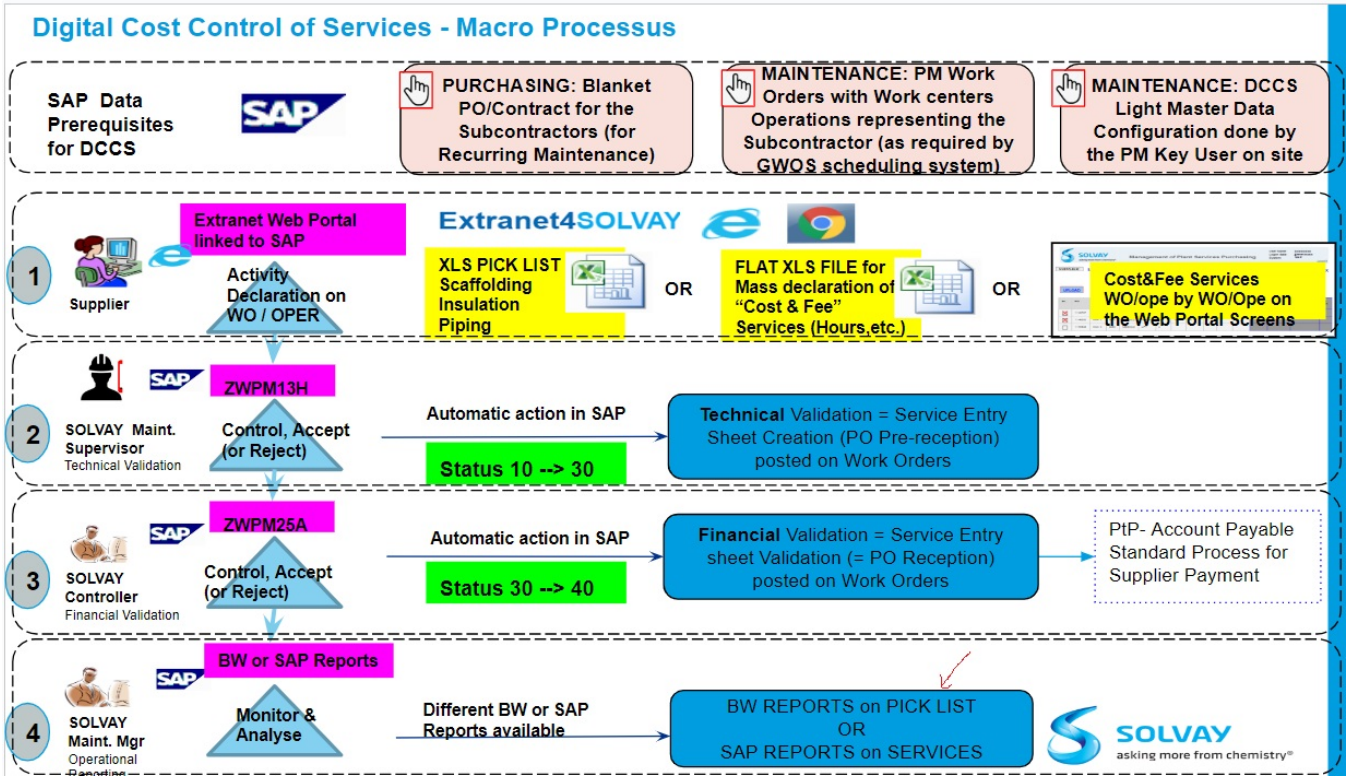
There are six types of intervention:

- Scaffo (Scaffolding)
- Piping
- Insula (Insulation)
- Inel (Electric Instruments)
- Lift
- Clean (Cleansing)

DCCS Business Overview:

The GTBU covers only data in RCS (WP1), and only for plants where GTBU application is available.

- Automates maintenance service inputs for external Costs recording in the Work Orders
- Use of Pick Lists (Excel) or **direct services inputs** (DCCS Web Portal)
- Daily transaction flow under control and simplified.
- Automatic & Smart workflow by connecting multiple systems:



3.0 Application Feature Overview

Selected BW queries.

Reports	Definition	Prompts	BW Workbook Query	Query Technical Name

GTBU - Reactivity Analysis		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM05_003	
GTBU - Services Analysis		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM05_008	
GTBU - Cleaning Analysis		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM05_012	
GTBU - INEL		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM05_004	
GTBU - INSULA		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM06_002	
GTBU - LIFTING		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM05_009	
GTBU - PIPING		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM07_004	

GTBU - SCAFFOLDING		Mandatory: • Company Code Optional: • File Posted • Plant • Workcenter • Service Entry • Auth Scope on Company Code	BW_QRY_MPR_PM05_001	

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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.

Main functionalities

The files generate data for BW in the export tab. Indicators are registered in the files with a key. After confirmation of the file, a night job (on WP1: PM_T00400_EU; on PF1: ZZI_020_TA_GTBU_EXTRAC_BW) for program ZWPMT00400 add data in tables ZWPMT007 and ZWPMT019 for the extraction. We can check the files uploaded by suppliers in the SAP transaction. In BW, the key relate to the KF.

The application is based on three data sources based on SAP tables:

- DTS_ZBW_ZWPMT007
- DTS_ZBW_ZWPMT019
- DTS_PMESLL

Main dimensions for the data:

- C_GTBUUID Unique log file identifier for GTBU
- C_PMORDR PM Work Order
- C_EQUNR Equipment number
- C_LBLNI Entry sheet number
- C_SEDAT Service entry sheet creation date
- C_SCITKEY Equipment item key

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.

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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.