Business Requirements Document

add new workshop type variables to workshop master data

**dim\_wks\_extra\_workshop\_master\_data**

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Revision History (Mandatory)

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date of Revision** | **Author of Revision** | **Brief Description of Revision** |
| 01 | 2023.10.30 | Yanfei Sui | add new workshop type to workshop master data |
|  |  |  |  |

Reviewers

|  |  |  |
| --- | --- | --- |
| **Reviewers** | **Representing Area** | **Date of Review** |
|  | *Example: BA / Project Manager / Architect / Technical Leader* |  |
| Yanfei SUI | BA | 2023.10.30 |
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|  |  |  |
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* *This table is used to track the people who review this document.*

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# Introduction

## Project Background (mandatory)

* Add the correct workshop type in workshop master data
* Enable BI and other application get the accurate workshop type from workshop master data directly
* Easy for next step business analysis for user

## Project Scope (mandatory)

* Add two new variables “client\_type”, “typeof”, “workshop\_type” in the current workshop master data “dim\_wks\_extra\_workshop\_master\_data”
* No other function added.

## Definitions, Acronyms, and Abbreviations

The first-time usage of any term, acronym, or abbreviation within this document are defined in the table below.

*Table 1. Definitions, Acronyms, and Abbreviations*

| Term | Definition |
| --- | --- |
| *Example:*  *BRD* | *Business Requirements Document. The document records changes in work activities and work practices, usually including the introduction of the latest information systems and/or services, to help the organization achieve its aims and objectives.* |
|  |  |

# Functional Requirements

This section describes the detailed functional requirements.

## Affected Functional Areas (mandatory)

The following table is a checklist indicating areas that are or are not affected by this project. Note that “Areas” and “Considerations” are not all-inclusive but are meant to elicit dialog between different teams and groups.

*Table 2. Affected Functional Areas*

| Areas | Considerations | Affected (Yes or No) | Manner Affected |
| --- | --- | --- | --- |
| *workshop* | * *Workshop type flag to identify the type of workshop (Dealer/Workshop chian)* * *Workshop type flag to identify the type of workshop (Gasoline/Dissel)* * *Workshop type flag to identify the type of workshop (BSS/BSS Candidate)* |  | New added |
|  |  |  |  |
|  |  |  |  |

## Detailed Functional Requirements

This section documents all detailed requirements.

### Indicator List and Definition (mandatory)

The following table lists all required indicators and corresponding definitions and dimensions that meet business requirements. **If need table change, that goes to Data model change, if not, changes can be implemented in analytic layers (eg: BI report).**

*Table 3. List And Definition of Indicators*

| Requirement ID | Indicator | Business Definition | Data Definition | Dimensions | Need Table change |
| --- | --- | --- | --- | --- | --- |
| *1* | client\_type | *Identification ID of the client type* | *unique identification*  *of the client type (dealer/workshop/workshop chian…)* | *client\_type flag* | *Yes* |
| *2* | typeof | *Identification ID of type of workshop* | *unique identification the type of workshop (gasoline/dissel)* | *type of workshop flag* | *Yes* |
| *3* | workshop\_type | *Identification ID of of the woek shop type* | *unique identification the workshop type (BSS/BSS Candidate/FRC/eXtra)* | *Workshop type flag* | *Yes* |

### Data Model (mandatory if need table change)

three new columns will be added in the current workshop master data table

dim\_wks\_extra\_workshop\_master\_data

#### Define < dim\_wks\_extra\_workshop\_master\_data > (mandatory)

The required table structure is as follows:

***Table 4. Structure of < dim\_wks\_extra\_workshop\_master\_data >***

|  |  |
| --- | --- |
| **Column Name** | **Data Type** |
| client\_type | *varchar* |
| typeof | *varchar* |
| Workshop\_type | *varchar* |

#### Populate < dim\_wks\_extra\_workshop\_master\_data > (mandatory)

If table has many columns, can be attached in the Appendix 1 - <Source to Target (Template)>.

*Table 5. Source to Target Mapping*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Target Table** | | | **Source Tables** | | | |
| **Column Name** | **Description** | **Data Type** | **System** | **Table Name** | **Column Name** | **Data Type** |
| *client\_type* | Identify the client type in eXtra system (Dealer/Workshop Chain…) | varchar | Datasimba | ods\_extra\_client\_identity\_config\_df | *client\_type* | Varchar |
| *typeof* | Identify the type of workshop in eXtra system(Gasoline/Dissel…) | varchar | Datasimba | ods\_extra\_client\_identity\_config\_df | *typeof* | varchar |
| *workshop\_type* | Identify the workshop type in eXtra system(BSS/FRC/eXtra…) | varchar | Datasimba | ods\_extra\_client\_identity\_config\_df | power  details\_typeof | varchar |

**Data table structure relatationship:**

dim\_wks\_extra\_workshop\_master\_data<--client\_id--->ods\_extra\_bdo\_client\_info\_df

get client\_bss\_identify\_config\_id and client\_identify\_config\_id

if client\_bss\_identify\_config\_id  is not null client\_bss\_identify\_config\_id  else client\_identify\_config\_id

then connect ods\_extra\_client\_identity\_config\_df with “id” to get the listed column, for workshop\_type definition please find the appendex excel

Code sample:

select a.\*, b.client\_type, b.typeof, b.details\_type, b.details\_typeof, b.showtag, b.power

from (select a.\*, case when c.client\_bss\_identify\_config\_id is not null then c.client\_bss\_identify\_config\_id else c.client\_identify\_config\_id end as client\_identify\_config\_id

from (select \* from dim\_wks\_extra\_workshop\_master\_data where ds='20231029') a

left join (select \* from ods\_extra\_dbo\_client\_info\_df where ds='20231029') c

on a.client\_id=c.client\_id) a

left join (select \* from ods\_extra\_client\_identity\_config\_df where ds='20231029') b

on a.client\_identify\_config\_id=b.id

# Non-functional Requirements

This section addresses non-functional requirements not associated with specific business functions but that must be met for project success.

* Sync with eXtra data in workshop master data and refresh daily

## Non-functional Affected Areas

The following tables delineate whether or not specific non-functional areas relating to are/are not impacted by the implementation of this project.

*Table 7. Affected Non-functional Considerations*

| Area | Description | Affected (Yes or No) | Manner Affected |
| --- | --- | --- | --- |
| *Data Retention* | *\*\* Consult with Technical Lead and/or Architect* |  |  |
| *System Logging* | *\*\* Note: To be addressed with the Architect* |  |  |
| *Disaster Recovery* | *\*\* Note: To be addressed with the Architect* |  |  |
|  |  |  |  |

## Performance Requirements

Document requirements related to the speed of response, scalability, throughput, execution time and storage capacity.

## Usability Requirements

Document requirements related to the ease of use and understandability of the system for the end-users.

## Security Requirements (mandatory)

This section documents requirements related to the protection of the data from unauthorized access. This includes but is not limited to the followings:

1. Authorization from the data owner is required to access data.
2. Data permission should be assigned based on user roles.
3. Provide a list of data which must be stored or displayed in an encrypted form.
4. The data should be classified, and it is mandatory to review the classification with DSP.

*Table 8. Data Classification*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Business Object** | **Data Fields** | **Personal-related Data**  **(Yes/No)** | **C-SC Security Class** | **I-SC Security**  **Class** | **A-SC**  **Security**  **Class** |
| *Workshop type* | *Client\_type*  *Typeof*  *Workshop\_type* | *No* | *1* | *1* | *1* |

## Legal Requirements (mandatory)

The source and use of data must comply with legal requirements. This includes but is not limited to the followings:

1. Personal Information Protection Law should be obeyed when personal information is involved.
2. Provisions on the Administration of Algorithm Recommendation of Internet Information Services must be abided by, when the requirement includes algorithm recommendation services.

# Project Impact Considerations

## Project Assumptions

The following assumptions have been made for this project:

* <Assumption 1>.
* <Assumption 2>.
* <Assumption Etc.>.

## Project Constraints

The following constraints are associated with the delivery of this project:

* <Constraint 1>.
* <Constraint 2>.
* <Constraint, etc.>.

## Project Risks

The following risks have been identified during this phase of this project:

* <Risk 1>.
* <Risk 2>.
* <Risk, etc.>.

# Appendix

The following documents provide supporting information for this project:

* Appendix 1 - <Source to Target (Template)>



* <Appendix 2> - <Name of Document 2>

<Attached Document 2>

* <Appendix, etc.> - <Name of Document, etc.>

<Attached Document, etc.>