

Functional Requirements Document- Integration

Prepared for
Technica

Version: **2.0**

Prepared by:
Abdo Khoury

Contributors:
Antonio Saleh

Table of Content

Contents

INTRODUCTION.....	3
1.1 PURPOSE.....	3
1.2 ACRONYMS	3
1.1 BUSINESS PROCESSES LIST	4
1.2 LOGISTICS PROCESSES.....	5
1.2.1 <i>INT001 – Integration.....</i>	5
Process Overview	5
1.2.1 <i>INT002 – F&O to Staging.....</i>	6
1.2.2 <i>INT003 – CAD to Staging.....</i>	6

Introduction

1.1 Purpose

The Functional Requirements Document (FRD) describes in common terms:

- An overview of the processes comprising each Work stream
- An overview of each sub-process comprising the Work stream
- Major gaps between the business requirements and the functionality supported by the standard Microsoft Dynamics 365 solution
- The problem summary including current business/environment issues
- Proposed technology to support the new or altered business processes
- How implementation of the proposed solution will benefit the users/stakeholders

The FRD is the starting point of the solution and system development and is a collaborative effort between all business and technology stakeholders. The purpose of the Functional Requirements Document (FRD) is to document requirements for the requested system solution.

The objective of the Functional Requirements Document is to provide enhanced documentation for requirements that are a gap or will require a workaround or process change in order to fit the system solution of the client. The need for any modifications is clarified through the FRD. The FRD forms the basis of the subsequent task concerning the system design.

This document focuses on Production requirements.

1.2 Acronyms

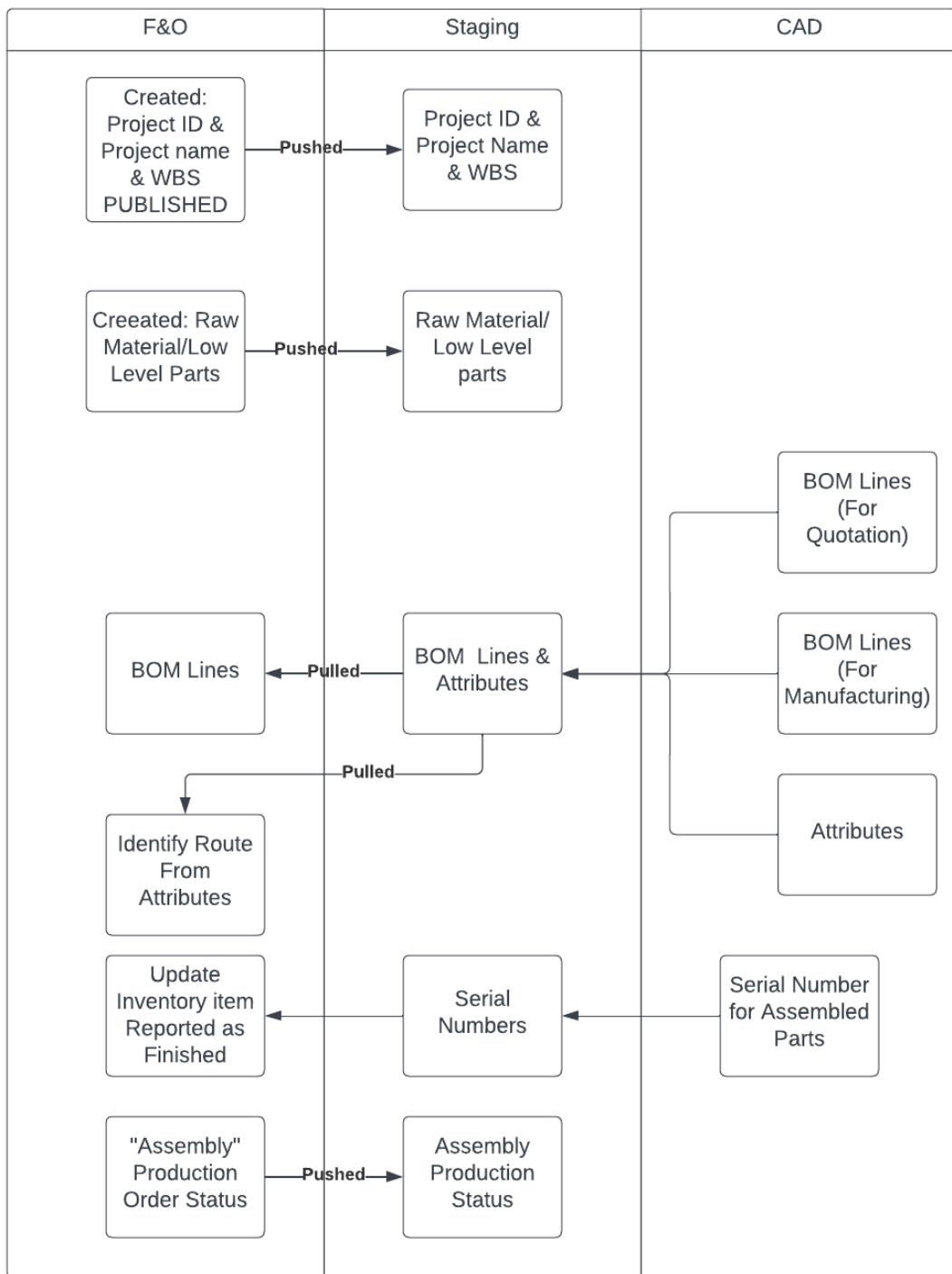
Abbreviation	Explanation
FRD	Functional Requirement Document
System	Dynamics 365 Finance & Operation
D365	Dynamics 365 Finance & Operation
Backoffice	D365 F&O

1.1 Business Processes List

1.2 Logistics Processes

1.2.1 INT001 – Integration Overview

Process Overview



- Periodically the newly created Projects and their WBS will be pushed to the staging environment and will be flagged as **PUSHED**; *only WBS that is Published will be pushed.*
- Periodically the newly created Raw Material and Low-Level Parts will be pushed to the staging environment and will be flagged as **PUSHED**; *if a pushed item is edited the updated fields will be pushed to the staging table.*
- The BOM Lines & Route will be **PULLED** from the staging **ON-Demand**; any missing item in ERP can be imported back, and it is going to be created automatically. The BOM version will be pushed from the CAD system to ERP.
- Serial Numbers will be **PULLED** Periodically for the staging environment
- Periodically the status of the Assembly Production Order will be **PUSHED** to the staging environment.

When we mention the term periodically, mean we can discuss with Technica later and determine that periodically could be 30 minutes or 2 hours,

1.2.1 INT002 – F&O to Staging

1. F&O will push the **Project ID & Project Name** and **WBS activities** to the staging table;
 - a. Trigger: Periodically
 - b. This integration will push project ID, Project name & WBS Activities from F&O to Staging
2. Raw material products (Replenishment) will be created in F&O and Pushed to the staging table
 - a. Trigger: Periodically
 - b. This integration will push raw material products from F&O to staging
3. Production Order Status Update will be pushed from F&O to the staging table
 - a. Trigger: Periodically
 - b. This integration will push Production order integration status from F&O to staging

1.2.2 INT003 – CAD to Staging

1. Manufactured items (Item number, Item Name) will be pushed from CAD to the staging table
 - a. This is true for all items levels except for Level 1: Level 1 products need to be created in F&O prior to the integration; if the item doesn't exist, the integration will return an error identifying that this item doesn't exist in F&O

and need to be created in order for the integration to be completed successfully.

- i. Trigger: Periodic
- ii. A custom field needs to be added on the released product, so as to identify that this released product is Level 1, once this field is marked as TRUE, the released product can be pushed to staging
- b. Attributes will need to be pushed with the manufactured items in order to be able to identify the route in F&O
 - i. There will be a customized screen in F&O which will allow the user to select an item with multiple attributes resulting in a specific route:

Item Number	+	Attribute1	+	Attribute2	+	Attribute3	= Route ID 1
Item Number	+	Attribute1	+	Attribute4	+	Attribute3	= Route ID 2
Item Number	+	Attribute3	+	Attribute5			= Route ID 3

If an attribute is not available in D365 F&O, it will be created automatically in D365 F&O; the attribute value will be an ID with a description.

- 2. BOM Lines (For Quotation)
 - a. Trigger: On Demand
 - b. This integration will pull the BOM lines from the staging table to F&O
- 3. BOM Lines (For Manufacturing)
 - a. Trigger: On Demand
 - b. This integration will pull the BOM lines from the staging table to F&O
- 4. Serial Number for certain Manufactured items will be pushed from CAD to staging in order to track manufactured/Assembled items.
 - a. Trigger: Periodically
 - b. Serial Numbers will be provided by CAD system to be pulled into F&O

DOCUMENT APPROVALS

I have reviewed the information contained in this document and approved it through by sign off below:

Name	Department	Date	Signature

Comments:

The specifications and conditions are hereby accepted. Info-Sys is authorized to execute the project as outlined in this document. This document is not valid until signed by the customer representative and returned to Info-Sys.

Signature: _____ Date: _____