|  |  |  |
| --- | --- | --- |
|  | **NAME** | **POSITION** |
| **AUTHOR** | <NAME First name> | Functional owner (for <APPLICATION>) |
| CADEL Jonathan | Middleware Architect |
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| **VERIFICATION** | <NAME First name> | Middleware Architect |
| <NAME First name> | Middleware Business Analyst |
|  |  |
| **APPROVAL** | <NAME First name> | Middleware Architect |
| <NAME First name> | Functional owner (for <APPLICATION>) |

| **Version** | **Author** | **Subject of the revision** |
| --- | --- | --- |
| 0.1 | CADEL Jonathan  BLONDEZ Olivier | Draft Version |
| 1.0 | <NAME First name> | CREATION |

|  |
| --- |
| **ASSOCIATED DOCUMENTS** |
|  |

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# General Information

|  |  |
| --- | --- |
| Description | Data flow between BCPO and WEBCAISSE (Removal of the Facility Commander interface) |
| Source | BCPO (Database SQLServer) (Internal application) |
| Middleware | TALEND |
| Target | WEBCAISSE (External application, Accessible via network share) |
| Data type | Personal data of employees |
| Priority | |  |  |  |  | | --- | --- | --- | --- | |  | High | Interface is required for go-live | | | X | Medium | Either not needed day one or a workaround is possible | | |  | Low | Supports “nice to have” functionality | | |  | Other | Specify: |  | |  | | | |
| Complexity | |  |  |  |  | | --- | --- | --- | --- | |  | Very High | Refer to complexity estimator | | |  | High | Refer to complexity estimator | | |  | Medium | Refer to complexity estimator | | | X | Low | Refer to complexity estimator | | |  | Very Low | Refer to complexity estimator | | |  | Other | Specify: |  | |  | | | |
|  |  |
|  |  |

# Issues

**N/A**

| **Issue #** | **Issue**  **owner** | **Date Raised** | **Issue Description** | **Issue Resolution** | **Resolved By & Date** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

# Interface Tracking

## Interface Classification

|  |  |
| --- | --- |
| Flow Code | TLDXXXX |
| Flow Name | **WebCaisse\_POST\_BCPO\_TO\_WEBCAISSE** |
| Direction  *(Only for half flows ?)* | |  |  |  |  | | --- | --- | --- | --- | |  | Inbound | Interface data flows inbound to Middleware | | | X | Outbound | Interface data flows outbound from Middleware | | |  | Other | Specify: |  | |  | | | |
| Interface  Type | |  |  |  |  | | --- | --- | --- | --- | | X | Batch (ETL) | One-way transfer of “accumulated” data set; Usually done by scheduled file transfer. | | |  | Near Real-Time (ESB-ETL) | One-way message-based transfer of data; Usually triggered by event. | | |  | Real-Time (ESB) | Immediate transfer of small data set; Usually triggered by event. | | |  | API | Invoked from Application. | | |  | Other | Specify: |  | |  | | | |
| Interface  Frequency | |  |  |  |  | | --- | --- | --- | --- | |  | Hourly | Details: |  | | X | Daily | Details: | 2 times a day (at 10:00 a.m. and 3:00 p.m.) | |  | Weekly | Details: |  | |  | Monthly | Details: |  | |  | Quarterly | Details: |  | |  | Yearly | Details: |  | |  | On-Demand | How often: |  | |  | Other | Specify: |  | |  | | | |
| Type of  Records  Sent | |  |  |  |  | | --- | --- | --- | --- | | X | Full record load | Send all records every time interface is executed | | |  | Delta full records | Only send records where one or more fields have changed since previous execution | | |  | Delta records | Only send fields (and keys) that changed since previous interface execution | | |  | Other | Specify: |  | |  | | | |
| Flow type | |  |  |  |  | | --- | --- | --- | --- | | X | File transfers | Send one or more files | | |  | Data consultations | Service for consulting data | | |  | Data search | Service for searching data | | |  | Creating or updating data | Service for creating or updating data | | | X | Other | Specify: | SQL Query | |  | | | |
| Volume  *(per single*  *execution)* | |  |  | | --- | --- | | Average Volume: 2mo |  | | Average number of calls per day: 2 |  | |

# Interface Functionality Requirements

## Business Justification and Requirement

This automatic and direct integration between BCPO and WEBCAISSE will be enabled via TALEND middleware and One Automation.

Network traffic to be opened between BCPO environment and WEBCAISSE :

* Creation of a service account to connect to BPCO. Installation of service accounts on the 3 servers (DEV, KLIF and PROD).
* One automation will transfer the file to the WEBCAISSE SMB. One automation must have the authorization for this.

## Process Flow / Data Flow and Business and Date Rules

* **Step 1**: Package ETL scheduling by One automation. One automation executes the package 2 times a day (at 10:00 a.m. and 3:00 p.m.)
* **Step 2:** SQL Query on BPCO
* **Step 3:** Creation of the file
* **Step 4:**  Upload file. One automation will transfer the file to the WEBCAISSE SMB

Diagram :

BPCO Middleware WEBCAISSE

Scheduled by One automation

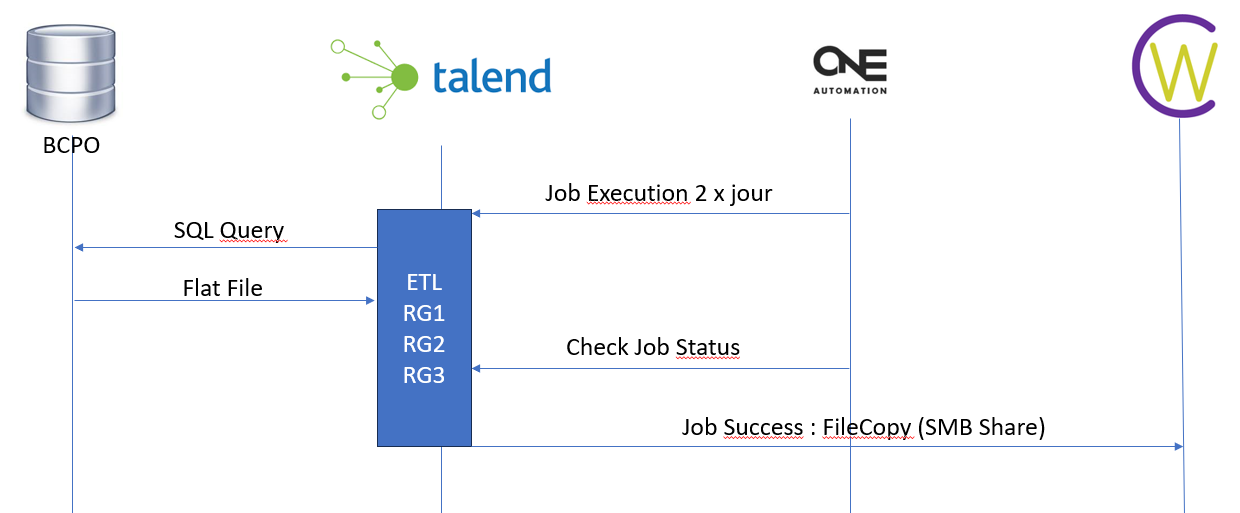
Scheduled by One automation

Message Transformation

Flat File

SQL

Sequence diagram :



## Assumptions

**N/A**

## Constraints

**N/A**

| Description of  Constraint | Constraint Reported By | Constraint Type  (Data or Business) | Comment |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

## Out of Scope

**N/A**

| Description of  Out-of-Scope Item | Item  Reported By | Type  (Data or Business) | Comments |
| --- | --- | --- | --- |
|  |  |  |  |

# Interface Data Requirements

## Source Interface Data Layout

Source data is available as (Type “X” for ***all*** that apply):

|  |  |  |  |
| --- | --- | --- | --- |
| X | Database | Table Name(s): | < Provide Table Name> |
|  | File | Type: |  |
|  | Procedure | Name: | <List function, transaction, or other procedure call that can provide this data set> |
|  | API | Name | <End Point> |
|  | Other | Method: |  |

Mapping rules are detailed in the attached document

## Sample Data

**Source Sample Data**:

**Target Sample Data**:



## Data Retention

|  |  |  |  |
| --- | --- | --- | --- |
| X | None | Data retention is not necessary for this interface | |
|  | 7 days | | |
|  | 15 days | (default) | |
|  | 30 days | | |
|  | Other | Specify: |  |
|  | | |

# M/W solution (if applicable)

## Middleware Solution

**N/A**

## Mapping Rules & Conversion criteria

[Technical Specifications](https://roquettegroup.sharepoint.com/:x:/r/sites/CSTALEND/Shared%20Documents/General/Projets/SPSS%20-%20WebCaisse/Roquette_spec-technique-WebCaisse.xlsx?d=w4f3c86b759df4559b02c933e47080848&csf=1&web=1&e=0ZpsPy)

# Configuration and Dependencies

## Other Dependencies

**N/A**

| Dependency | Predecessor or Successor | Description |
| --- | --- | --- |
| FEX\_XXXX |  | Scheduling & file transfert |
|  |  |  |
|  |  |  |

# Interface Controls

## Completeness & accuracy Control

**N/A**

| Control | Control Addressed |
| --- | --- |
|  |  |
|  |  |
|  |  |

## Duplicate Records Control

**N/A**

| Control | Control Addressed |
| --- | --- |
|  |  |
|  |  |
|  |  |

## Error Detection and Communication Control

### Data Error (Non-Execution) Notification

Notification Mechanism:

|  |  |  |  |
| --- | --- | --- | --- |
| x | Email Notification | Send To: | <Middleware> monitoring team will notify L2 Support |
|  | Other | Specify: |  |
|  | | |

Urgency:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Immediate |  | |
| x | Next Business Day |  | |
|  | Before Specific Event | Specify: |  |
|  | | |

Impact to business in the event of this error:

|  |
| --- |
|  |

### Non-Fatal Execution Error Notification

|  |  |  |  |
| --- | --- | --- | --- |
| X | Email Notification | Send To: | <Middleware> monitoring team will notify L2 Support |
|  | Write to Error Log | Elements: |  |
|  | Other | Specify: |  |
|  | | |

Urgency:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Immediate |  | |
| x | Next Business Day |  | |
|  | Before Specific Event | Specify: |  |
|  | | |

Impact to business in the event of this error:

|  |
| --- |
|  |

### Fatal Execution Error Notification

|  |  |  |  |
| --- | --- | --- | --- |
| X | Email Notification | Send To: | <Middleware> monitoring team will notify L2 Support |
|  | Write to Error Log | Elements: | Log of all the process |
|  | Other | Specify: |  |
|  | | |

Urgency:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Immediate |  | |
| X | Next Business Day |  | |
|  | Before Specific Event | Specify: |  |
|  | | |

Impact to business in the event of this error:

|  |
| --- |
|  |

### Fatal Execution Error Progress Handling:

|  |  |  |  |
| --- | --- | --- | --- |
| x | Commit Progress | Records that were successfully processed before the error are committed to target before the append | |
|  | Back Out Progress | All records from this interface execution are removed from target system even if they were successful | |
|  | Other | Specify: |  |
|  | | |

## Standard File Format Control

**N/A**

| Control | Control Addressed |
| --- | --- |
|  |  |
|  |  |
|  |  |

# Recovery and Restart

**N/A**

# Testing Scenarios

**General description:**

|  |  |
| --- | --- |
| Normal Functionality - test cases that ensure the enhancement functions as it should. | |
| ID | Description |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| Exception - special logic or exceptions (e.g. report should exclude certain specific condition) | |
| 5 |  |
| *6* |  |
| Error Handling - functionality in case of errors (e.g. Error Message or Error Log ) | |
| 7 |  |
| 8 |  |

**Prerequisites:**

* *Master data creation (To explain which master data to create and explanation how to create to reproduce test data – with screen shot)*

**Step Details & Expected result:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Normal Functionality - test cases that ensure the enhancement functions as it should. | | | | | |
| ID | Step N° | | Description | Test data | Expected result |
| 1 | 1 | |  |  |  |
| 2 | |  |  |  |
| 3 | |  |  |  |
| 4 | |  |  |  |
| 2 |  | |  |  |  |
|  | |  |  |  |
|  | |  |  |  |
|  | |  |  |  |
| 3 |  | |  |  |  |
|  | |  |  |  |
|  | |  |  |  |
|  | |  |  |  |
| 4 |  | |  |  |  |
|  | |  |  |  |
|  | |  |  |  |
|  | |  |  |  |
| Exception - special logic or exceptions (e.g. report shold exclude certain specific condition) | | | | | |
| 5 |  |  | |  |  |
| *6* |  |  | |  |  |
| Error Handling - functionality in case of errors (e.g. Error Message or Error Log ) | | | | | |
| 7 |  |  | |  |  |
| *8* |  |  | |  |  |