|  |  |  |
| --- | --- | --- |
| SAP Interface Function Specification Document for I4001 StudentData |  | |
|  | |  |

|  |  |
| --- | --- |
| **Business Process Organizational Structure** | HR Application Data |
| **Process Owner** | Pradeep Nair |
| **Original Author(s)** | Capgemini L&D Team |
| **Current Revision Author(s)** | Capgemini L&D Team |

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Revision Notes** |
| 1.0 | 18/02/2021 | Pradeep Nair | Initial Release |
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# OBJECT REQUIREMENT SUMMARY

## Object Information and Attributes

The following is current information about this object and document:

|  |  |
| --- | --- |
| **Object ID** | I4001 |
| **Title** | StudentData |
| **Team Which**  **Owns the Object** |  |
| **System Version Source** | CG sharefolder |
| **System Version Destination** | CG sharefolder |
| **Development Type** | Interface |
| **Link to Process Flow/FDD(SAP and Non-SAP)** | <<No link>> |

## Requirements Summary and Business Driver

As a part of PI Case Study exercise, we need to pick up the student data xml file from CG shared folder, archive it and convert it into required results xml after calculating total marks, percentage and grade and put it in CG shared folder.

### Alternatives to Object

N/A

### Impact of Implementation

Results will be computed for all the students.

### Impact of No Implementation

If the interface is not developed lot of manual effort will be required to calculate the results.

## Assumptions

Necessary SAP connectivity configuration is in place to pick and drop files in shared folder.

## Current Functionality

N/A

## Required Functionality

Once a StudentData.xml file is placed in Shared folder, PI (XI1) will pick up the file and convert it into required Results.xml format. A copy of the original file will be archived in the Archive folder of the shared drive.

## Performance Criteria

| ***Source***  ***System*** | ***Destination***  ***System*** | ***Performance Requirements for Interfaces*** | | |
| --- | --- | --- | --- | --- |
|  |  | Average Transactions / Records and Type per Interface Run (include input & output): | Peak Transactions / Records and Type per Interface Run (include input & output): | Required Throughput For Interface (include input & output): |
| Share folder | Share folder | On demand | On demand | On demand |
|  |  |  |  |  |

# INTERFACE DESIGN SPECIFICATIONS

## Detailed Requirements

| *Interface Business Object* | |
| --- | --- |
| **Business Object** | StudentData |
| **Business Object Description** | Marks of all the students |

|  |  |  |
| --- | --- | --- |
| ***Application Name*** | ***Source*** | ***Destination*** |
| SAP ERP EC5 |  |  |
| CG share folder |  |  |
| < List Application Name1> |  |  |

|  |  |
| --- | --- |
| ***Source Application Interface Type(Check one Only)*** | |
| Screen |  |
| Report |  |
| File |  |
| Database Table |  |
| Application Protocol Interface (API) |  |
| WebService |  |
| Other (Describe) Idoc |  |

|  |  |
| --- | --- |
| ***Destination Application Interface Type(Check one Only)*** | |
| Screen |  |
| Report |  |
| File |  |
| Database Table |  |
| Application Protocol Interface (API) |  |
| WebService |  |
| Other (Describe) Idoc |  |

| *Legacy Systems* | *Contact Name* |
| --- | --- |
| N/A | N/A |
| Source 1 |  |
| Source 2 |  |

|  |  |
| --- | --- |
| *Method of Execution:*  (Foreground / Background Scheduled / Manual / On Demand) | Automatic pick up of file from Share Drive |
| *Inbound / Outbound:* | Inbound |

## Error Handling

**N/A**

# Selection Criteria/Screen

| **Field Name** | **Selection Text / Description** | **Type of Field (Check Box / Radio Button / Select-Option / Parameter)** | **Search Help / Pick List / List of values**  **(Y / N)** | **Validation Required**  **(Y / N)** | **Default Value** | **Mandatory**  **/ Optional** | **Single/**  **Multiple/**  **Range/**  **all possible combinations** | **Fields Grouping /Frame name** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N/A |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

## Detailed Requirement

Once a StudentData.xml file is placed in Shared folder, PI (XI1) will pick up the file and convert it into required Results.xml format. A copy of the original file will be archived in the Archive folder of the shared drive.

File

File

XI1

ShareFolder

ShareFolder

StudentData.xml

Results\_YYYYMMDD\_HHMMSS.xml

## Detailed Data Mapping

Please find the Mapping specification attached below.

Mapping sheet



## Processing Specifications

| *Processing Business Rules* |
| --- |
| Input File Naming convention : StudentData.xml  Archive the file in the Archive directory adding timestamp.  Output File Naming convention : Results\_YYYYMMDD\_HHMMSS.xml |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Rule*** | **How is this Interface initiated or triggered?** |  | **What is the Initiation or Trigger Source?** | **How frequently is this Interface run?** | **What days of the week does this Interface get run?** | **What time of the day is this Interface run & what is the allowed time window?** | **What are the predecessor processes & dependencies for this Interface?** |
| ***Description*** | Poll the channel every 15 mins |  | Auto Polling | N/A | All days | After successful trigger | N/A |
| ***Source 1*** |  |  |  |  |  |  |  |
| ***Source 2*** |  |  |  |  |  |  |  |

## Scheduling Requirements

**File Descriptions (if applicable)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Input File Requirements for Inbound Integrations (if applicable)*** | | | | | | | | | |  | |
| **Information Needed** | **Logical File Name** | **File Description** | **Variants** | **System Name** | **Physical File Location & Name** | **Selection Requirements** | **Empty Files** | **Sort Order For Incoming File / Message** | **Length of Time to Archive the Source File** | |
| ***Description*** | Refer3.1.2 section | Marks of all the students | N/A | N/A | Directory:  [\\inblrxi1\Training\Capgemini\_2021\Out](file://inblrxi1/Training/Capgemini_2021/Out)  Archive:  [\\inblrxi1\Training\Capgemini\_2021\Archive](file://inblrxi1/Training/Capgemini_2021/Archive)  FileName : **StudentData.xml** | N/A | To be filtered in Middleware | N/A | N/A | |
| ***Source 1*** |  |  |  |  |  |  |  |  |  | |
| ***Source 2*** |  |  |  |  |  |  |  |  |  | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Output File Requirements for Outbound Interfaces (if applicable)*** | | | | | | | | |  |
| **Information Needed** | **Logical File Name** | **File Description** | **Variants** | **System Name** | **Physical File Location & Name** | **Selection Requirements** | **Empty Files** | **Sort Order For Incoming File / Message** | **Length of Time to Archive the Client File** |
| ***Description*** | Refer3.1.2 section | Results of all the students | N/A | N/A | Directory:  [\\inblrxi1\Training\Capgemini\_2021\In](file://inblrxi1/Training/Capgemini_2021/In)  FileName : **Results\_YYYYMMDD\_HHMMSS.xml** | N/A | To be filtered in Middleware | N/A | N/A |
| ***Source 1*** |  |  |  |  |  |  |  |  |  |
| ***Source 2*** |  |  |  |  |  |  |  |  |  |

## Architecture Specifications

N/A

## Unit Test Plan

Identify the Test Scenario to be used to test the development with:

|  |  |  |
| --- | --- | --- |
| Test Considerations | Scope of Testing (Inside SAP (IS) / Outside SAP (OS) / Both (BO)) | Target Test Date |
|  | Both (BO) | 15/03/2021 |

## Related Business Scenario and Business Transactions

**Test Data**

Sample Input File :



Sample Output File:

