**Bidgely Error Reporting - Low Level Technical Design**

## Bidgely Error Reporting

This data domain currently comprises of one integration flows as of now– Error Report Export from Bidgely

**5.9.1** **INT21 (Bidgely Error Reporting)**

**5.9.1.1**  **Bidgely S3 Bucket to Landing Zone Integration**

Below diagram represents the flow of source data from bidgely S3 Bucket to landing zone for Bidgely Error Reporting. Refer section 2.2 in the Data Lake design document for storage account name per environment.

**Graphical user interface, application, Teams

Description automatically generated**

**Figure 43 - Bidgely Error Reporting S3 to Landing Zone Ingestion Flow**

Below are the details around each stage in the ingestion flow.

|  |  |
| --- | --- |
| **Flow ID** | **Description** |
| **Flow-1** | One or more gpg encrypted files containing data are copied to “contnspdevdllz/bidgely/int21/inbound/yyyyMMdd”  *Note: container name will change in higher env accordingly*  This flow maps to the step in ADF pipeline where we connect to Bidgely S3 bucket using linked service storing the secrets like access token and secret key in key vault connecting to ADF-01. |

### 5.9.1.2 Landing to Raw Zone Integration

Below diagram represents the flow of source data from landing zone until raw zone for bidgely error reporting. Refer section 2.2 in the Data Lake design document for storage account name per environment.

A screenshot of a computer

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**Figure 44 – Bidgely Error Reporting Landing Zone to Raw Zone Ingestion Flow**

Below are the details around each stage in the ingestion flow.

|  |  |
| --- | --- |
| **Flow ID** | **Description** |
| **Flow -2a** | * The gpg file extension is validated. * Azure Function will be triggered to decrypt and copy files category wise to “contnspdevdllz/bidgely/int21/wip/<RES/SMB>/CategoryType/Year=yyyy/Month=yyyyMM/Date=yyyyMMdd”   *Note: container name will change in higher env accordingly* |
| **Flow -2b** | Copy successfully gpg files from Inbound to processed folder |
|  |  |
| **Flow -2c** | copy **Pipe Delimited** files to  “contnspdevdlrz/bidgely/int21/wip/<RES/SMB>/CategoryType/Year=yyyy/Month=yyyyMM/Date=yyyyMMdd/\*” |

Only the decrypted pipe delimited file containing the data will be retained in the Raw Zone

Log file will be created in the Standard Zone to capture the current loads file process status and loaded into the SZ parquet.

### 5.9.1.3 Raw Zone to CEM Operational Zone Integration

The data load process from Raw Zone to standard zone is a one-one mapping

Graphical user interface, application

Description automatically generated

**Figure 45-Bidgely Error Reporting Raw Zone to CEM Standard Zone Ingestion Flow**

Source to Target Mapping

Source to target mapping for Integration flow 1 and 2 is available in the below location. The mapping file includes the following:

1. Source System Details
2. Data Flow details (ADF Details)
3. Log file name and path
4. Source to standard zone mapping

### 5.9.1.4 ADF Pipeline

|  |  |  |  |
| --- | --- | --- | --- |
| Pipeline Name | Description | Master(M) / Child (C’) indicator | Integration |
| pl\_bidgely\_int21\_bidgelyS3\_lz\_main | Pipeline to import files from bidgely S3 bucket to landing zone. | M | 21 |
| azf\_decrypterrorfiles\_category | Azure Function to decrypt bidgely error files and placing it into wip folder in Landing zone. | C | 21 |
| pl\_bidgely\_int21\_lz\_sz | This pipeline to decrypt files and move files from landing zone to Raw zone/and then to Standard zone. Also, pipeline to process files from Raw zone to Standard zone and store the result output file in parquet format. | C | 21 |
| tg\_int21\_<res/smb> | Triggers for int21 for two different account types |  |  |

**During 1st time run Load\_Information\_table will have Last\_run\_business\_date as current\_datetime, so we must ensure that in s3 bucket there must be files present for each day until current day.**

## pl\_bidgely\_int21\_bidgelyS3\_lz\_main (edit account\_type parameter(paramaccounttype) to run for RES and SMB) and Pipeline\_Name (parampipelinename) as INT21\_RES/INT21\_SMB

*Note: Leave the paramfilepaths as empty*

**CEM Standard Zone to Synapse Integration**

**A picture containing logo

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**For Reporting:**

* Synapse external table will be created over the parquet files stored in the CEM operational zone.
* A 6 -Month view will be provided. Accessing this view, the user can access the underlying error data for previous 6 months.
* Similarly, a 5 -day view will be provided. Accessing this view, the user can access the underlying error data for previous 5 days.
* From these two views anyone one can write a query on these for the further reporting.