**Introduction**

The IT\_Validation\_Final SSIS package is designed to get dataset ready to be imported into a TIPWeb-IT staging database. The package reject and cleanup records based on configuration values.

The package will create a copy of the Clients\_ETL table (Clients\_ETL\_Final) and run all of its updates against the copy, leaving Clients\_ETL intact for further cleansing.

The IT\_Validation\_Migration package will import the values from Clients\_ETL\_Final into the staging database.

The two packages should be run in tandem, with minimal time between the validation and migration.

**Pre-Requisites**

1. The following tables must exist in the database:
   1. Clients\_ETL
   2. AccessoryDefinition (can have no data)
   3. CustomFieldMeta (can have no data)
2. The table structures must match the structures in the TIPWEB\_ETL\_Template database
3. A staging database must exist
4. A configuration record must be added to the \_DataConversion.dbo.SSIS\_ITVariables table on Hayes Conversion
   1. Review the document *FinalValidationVariableDefinition.xlsx* for information about how to configure the client’s record

**Variables**

The packages will populate its configuration variables from the \_DataConversion.dbo.SSIS\_ITVariables table. Therefore, the only variable that ***needs*** to be updated is \_\_0RecordKey, which reads the appropriate configuration for the client you are processing.

In the event that environments change, the following would need to be updated in the packages:

* **\_\_BasePath** is the base location of the reports and their templates. Currently at E:\DataConversion\IT\
* **\_\_ETLServer** is the machine where the packages will look for the files to process. It assumes that all databases and files are on the same server. Currently set to HayesConversion
* **\_\_ConfigSQL** is the SQL statement that queries the SSIS\_ITVariables table and returns the configuration values. In the event that a new configuration TYPE is required, this SQL would need to change. In addition, the variable name would need to be added to the package(s), the ***Get Client Variables***Data Flow Task would need to be updated to map the new values to the Recordset designation, and the ***Assign Variables*** ForEach Loop Container would need to be updated to assign values to the variables from the Recordset.

Configurations can be added by updating the appropriate task. Please review the spreadsheet *FinalValidationVariableDefinition.xlsx*

**Process**

1. Create the client’s ETL database, if it doesn’t already exist.
2. Add the following tables from the *Clients\_ETL\_Template.*  The custom fields and accessory tables must exist, even if they contain no data.
   1. Clients\_ETL
   2. AccessoryDefinition
   3. CustomFieldMeta
3. Create a backup of the client’s production database and restore it as a staging DB.
4. Create a folder in the \_\_BasePath of your computer (currently e:\DataConversion\IT) for your client’s reject file
5. Add a record to the \_DataConversion.dbo.SSIS\_ITVariables table and edit it to the appropriate configurations. See the spreadsheet *FinalValidationVariableDefinition.xlsx* for details
   1. You will also need to update the ETL database name, the staging database name, and the folder name for your reject file.
6. Enter the record key from the client’s record in the SSIS\_ITVariables table for the \_\_0RecordKey in the IT\_Validation\_Final package.
7. Run the package. Any rejected files will be folder you created.
8. Enter the record key from the client’s record in the SSIS\_ITVariables table for the \_\_0RecordKey in the IT\_Validation\_Migration package.
9. Run the package
   1. If the package processes without errors, the final task will be the COMMIT TRANS
   2. If there are errors, the final task will be the ROLLBACK TRANS statement