

## Standard Operating Procedure

This documentation contains the rules supported by the system; these rules are used to determine any action mapped by the end user.

### List of Modules/Action

1. Import API
2. Map Table
3. Mapping Move
4. Import delimited file
5. FTP
6. SQL
7. Execute SSIS Package
8. Merge
9. Validation

### Keyword:

Every Action that are being used will be considered as a keyword to the system, it should exactly match with the below list to avoid any action failure.

- Import API: ImportAPI
- Mapping Move: MappingMove
- FTP: FTP
- Import delimited files: Importdelimitedfile
- Sql: SQL

**Special Character:** this is to bring the flexibility to the user to understand any parameter passed on to the table.

### Usage.

Any text followed by colon followed by parameter

- Source Table: Table\_Name
- Destination: Table\_Name
- Mapping of table: 101

**Note:** It can be used in different parameter section except for the URL and SQL Query String

### Points to remember:

Table Creation: If the table name doesn't match or exist will be created dynamically.

### Points for Discussion:

Hard Coding: The database name is hard coded in the application; we can use the empty parameter or even extend it to replace with staging and production database connection.

Auto Mapping: Dynamic creation of the mapping field is possible; however, it will create all the table fields in the map table.

## 1. Import API:

Usages: Get data from the API endpoint.

Supported file type: JSON

The SQL schema contains list of parameters below is the explanation.

### Parameter 1: Source URL

- It should always contain the source of the API.
- It cannot be null or empty.

### Parameter 2: Source Table Name

- It cannot be null or empty.
- Should contain the source table name

### Parameter 3: Mapping

This is used when the source changes the parameter, and used for mapping of the table

- It can be null or empty: if no mapping is made or required
- In case of mapping: should contain the **Primary Key of the Map Table**.

## 2. Map Table:

This is used when the source table changes it field. Mapping are done in two steps

Step1: The SQL server contains two table to support this feature

Table1: utblMstImportMapHeaders: Any table which requires mapping must have entry in this table and the primary key of the record will be further used in the second table to map any fields.

Table2: utblMstTableMappings: This table will be containing the source and destination field which are to be mapped with the primary key of the first table

- It can either contain all table fields of the source table or just the changed fields from the destination.
- The Mapping of the fields is required to be done manually.
- Only Import API, Mapping Move and Import Delimited File Action are supported by this functionality.

Future Scope: The Application/System to determine any such changes and to be automated

### Current Scenario:

Mapping is supported prior to the dynamic creation of the table. In this case mapping fields will be used.

### 3.Mapping Move.

Usages: Move data from staging to production.

Supported file type: Database Table

#### Parameter 1: Source Table

- It should always contain the source table name.
- Table name should exist in the database.
- It cannot be null or empty.

#### Parameter 2: Destination Table

- It should always contain the destination table name.
- If destination table doesn't exist, then the system will create dynamically.
- It cannot be null or empty.

#### Parameter 3: Mapping

This is used when the source changes the parameter, and used for mapping of the table

- It can be null or empty: if no mapping is made or required
- In case of mapping: should contain the **Primary Key of the Map Table**.

### 4. Import delimited file

Usages: Get data from flat files.

Supported file type: Texts, CSV

Supported Source: Web, Folder

#### Parameter 1: Source URL or Folder

- Should always contain the data source, it can be either web URL or the path to the folder name.
- It cannot be null or empty.

#### Parameter 2: Destination Table

- It should always contain the destination table name.
- It cannot be null or empty.

#### Parameter 3: Delimiter

- If only text file is specified, then it is mandated to specify delimiter

#### Parameter4: Mapping

- It can be null or empty: if no mapping is made or required
- In case of mapping: should contain the **Primary Key of the Map Table**.

#### Parameter 5: Special Character to Remove

## 5. FTP

Usages: Get files from remote server.

Supported file type: ANY

Supported Connection: FTP

### **Parameter 1: Connection ID**

- should always contain the primary key of the connection table.
- It cannot be null or empty.

### **Parameter 2. Files to get**

- It can either contain wildcard (\*) or file containing character
- It can be null or empty. In this case \* will be used

### **Parameter 3. Destination**

- Should have the file path to download.

## 6. SQL

Usages: Execute SQL Query.

Supported file type: SQL Query

### **Parameter 1: Query String**

- Should always contain valid and tested query string.
- Cannot be null or empty