# tagline

***RMA Migration Project***

***Database Migration Installation***

***& Configuration***

***May 2017***

## Purpose of the Document

This document provides a description of the zipped file, along with instructions of installing and using the Data Transfer Utility application for database migration.

This document is intended for anyone involved with the delivery of the RMA Migration Project.

## Revisions

| **Revision** | **Date** | **Description** |
| --- | --- | --- |
| 1.00 | May 30, 2017 | Initial Document |
| 1.10 | June 16, 2017 | Revised instructions in the “Installation and First Time Use” section. |
| 1.20 | July 9, 2017 | Revised the first time use in the “Installation and First Time Use” section. |
| 1.30 | July 15, 2017 | Added connection2 and updated use. |
| 1.40 | April 3, 2018 | Revised instructions. Add instruction to add views to the database. |

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## Introduction

The Data Transfer Utility consists of 1 zipped file containing the application’s executable, a “Scripts” folder containing various SQL scripts, and a “Data” folder containing the data to be used as the baseline during the migration process.

This application will allow RMA to perform a number of database migrations during the course of migration project in order to periodically clean up the data, if needed. This will result in no or minimal data fixes when RMA goes live with the migrated application.

## SQL Script Files

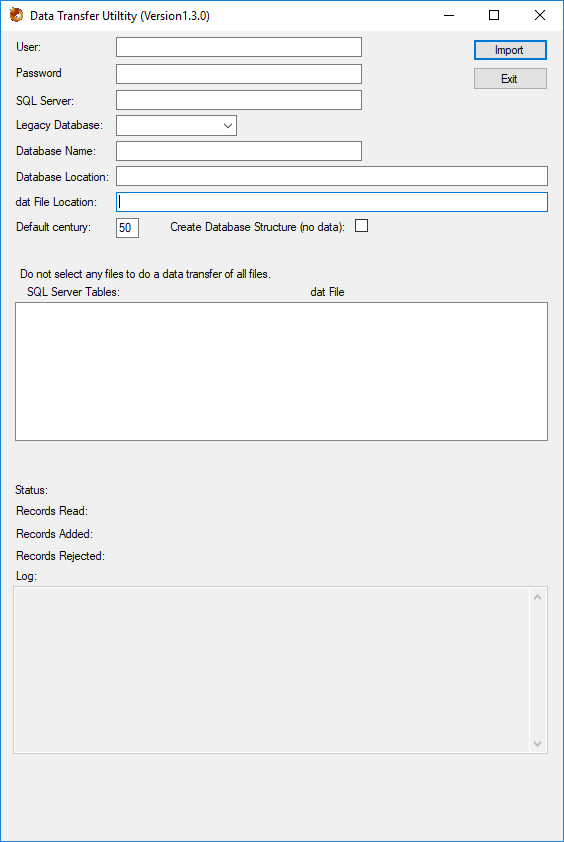
The SQL scripts included in this package are used to create the RMA101C database. Below is a brief description of each SQL file.

The SQL scripts are designed to work with the application, as there are placeholders in them that are replaced with values entered in from the application.

|  |  |
| --- | --- |
| SQL Script File | Description |
| Connection.sql | Connection string used to connect to SQL Server with sa user |
| Connection2.sq1 | Connection string used to connect to SQL Server with windows authentication user |
| CreateDatabase.sql | Create the database specified by the user |
| CreateDirectTables.sql | Create the tables for the DIRECT schema |
| CreateIndexedTables.sql | Create the tables for the INDEX schema |
| CreateSchema.sql | Create the DIRECT, INDEXED, SEQUENTIAL, and TEMPORARYDATA schemas |
| CreateSequentialTable.sql | Create the tables for the SEQUENTIAL schema |
| CreateTemporaryTables.sql | Create the tables for the TEMPORARYDATA schema |
| KillProcesses.sql | Kills any processes to the existing migrated database before reloading the data |

## Installation and First Time Use

The following steps will guide you through installation of the Data Transfer Utility application.

1. Copy the zip file (Data Transfer Utility.zip) to the computer where SQL Server is installed on. Unzip the contents of the file to a folder on the computer.
2. Go to the folder where the Data Transfer Utility application was unzipped to. Copy the file “Import\_schema\_101c.core” to the folder where the 101c data files are located. Repeat for the “Import\_schema\_MP.core” and the “Import\_schema\_SOLO.core” files
3. Double click on “Data Transfer Utility.exe”. The following screen will appear.  
     
   
4. Enter in values in the following fields:

|  |  |
| --- | --- |
| User | The user name to log into SQL Server. This can be the “sa”, or the windows authentication user |
| Password | The password of the SQL Server user name if using the “sa” user, otherwise it can be left blank |
| SQL Server | Name of the SQL Server instance to be used |
| Database to Create | Select the database that is going to be created. |
| Database Name | Name of the database to be created (i.e. RMA101C)  Note: The Security and Logging databases are defaulted and cannot be change |
| Database Location | Physical location where the database files will be stored |
| dat File Location | Physical location where the dat files are located, if different from the default displayed in the field. |
| Default century | Number used to determine the century to be placed in front of 2 digit years (i.e. if the value is 50, any 2 digit year that is 50 or higher will have a 19 in from of it, and a 20 in front of the year that is 49 and less). The default is 50. |
| Create Database Structure | Check if only the database structure is to be created and no data loaded into it. |

1. Press the “Import” button.

When the “Import” button is pressed, the application saves the values entered before starting the data transfer process. This is so the next time the application is used, the last values entered will be populated in the fields.

The first step in the data transfer process is executing the SQL scripts to create the database, schemas, as well as the tables, indices, constraints and triggers for each schema. Once the SQL scripts are completed and the database is created, the data transfer from the dat files to the database begins. Depending on how much processing power the computer has, the time to transfer the data will vary (possibly a minimum of 4 to 4.5 hours).

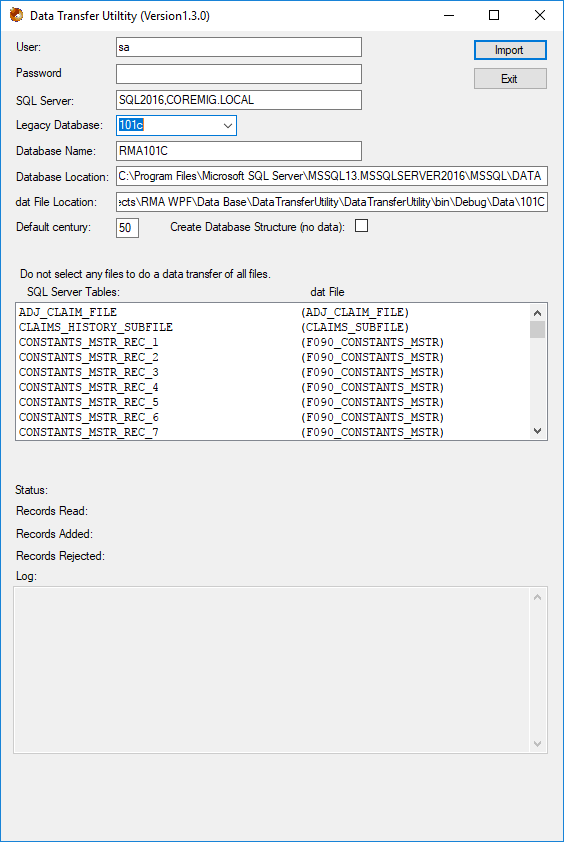
If there are errors loading records into a table during the data transfer process, a log file is created (in the folder where the dat file are), inserting into it the erroneous record, along with information about the error. If there are errors in more than one dat file, a log file will be created for each dat file. At the end of the data transfer, a text file (Output.txt) is created in the folder where the Data Transfer Utility executable is located. This file will contain the values displayed in the log section of the application.

## Creating the Views

1. Go to the “Scripts” folder that was included in the zip file.
2. In a text editor, open CreateViews.sql. Highlight and copy the sql script.
3. Open SQL Server Management Studio and open the SQL Server instance where the database was created.
4. Open a new query.
5. Paste the sql script into the query.
6. At the top of the sql script, replace %DatabaseName% with the name of the database you want to run the sql script against.
7. Execute the script.

## Reusing the Data Transfer Utility

The Data Transfer Utility can be used periodically during the migration to check for errors in the legacy data and correct it, so when the migrated application goes live, the final database migration will have minimal or no errors in the data.

1. Export the data from the legacy application.
2. Do one of the following:  
     
   a. Copy the dat files to the one of the following subfolders:  
     
    - DATA\101C  
    - DATA\MP  
    - DATA\SOLO  
     
   b. Copy the dat files to any folder on the computer where the Data Transfer Utility is installed on.
3. Go to the folder where the Data Transfer Utility application is located. Double click on “Data Transfer Utility.exe”. The following screen will appear.  
     
   
4. Enter in the password of the SQL SERVER user.
5. Select which legacy database to migrate from the “Legacy Database” dropdown list. If the import schema for the legacy data selected is not in the folder in the “data File Location” field, a message will be displayed.
6. If necessary, change the database name and the path where the dat files are located to match the legacy database selected in step 5.
7. To do a data transfer of one or more tables, but not all tables, click on the table name in the list box displaying the SQL Server tables. The row will be highlighted if selected. If a data transfer of whole database is to be done, do not select any tables in the list.
8. Press the “Import” button.

There are certain tables that when selected, data for other tables will also have its data refreshed. This is due to the legacy data being split into different tables in the migrated database. Below is the list of tables that will load data for other tables.

Only one of the tables in the various groups below needs to be selected in the application to refresh the data for all the other related tables.

|  |  |  |
| --- | --- | --- |
| F020\_DOCTOR\_MSTR  F020\_DOCTER\_EXTRA | F020\_CLAIMS\_MSTR\_HDR  F020\_CLAIMS\_MSTR\_DTL  F020\_CLAIMS\_MSTR\_DTL\_DESC | CONSTANTS\_MSTR\_REC\_1  CONSTANTS\_MSTR\_REC\_2  CONSTANTS\_MSTR\_REC\_3  CONSTANTS\_MSTR\_REC\_4  CONSTANTS\_MSTR\_REC\_5  CONSTANTS\_MSTR\_REC\_6  CONSTANTS\_MSTR\_REC\_7 |