GALAXY WHITE PAPER

MIGRATING BIOMETRIC DATA

From Traditional Sagem system to new MorphoManager system

Published January 2018
1st Edition (draft)

How to Guide

Migrating Biometric Finger Data from Legacy Interface to MorphoManager 10

Information in this document is subject to change without notice.

Therefore, no claims are made as to the accuracy or completeness of this document.

This guide covers migrating biometric finger data from the Traditional/Legacy Sagem Biometric System to the newer MorphoManager/BioBridge System to integrate enrollment.

Older version of SG 10 (and SG9) used the Traditional Sagem Biometric Interface to enroll and manage finger data, enroll smart cards, and manage finger templates at Sagem Legacy Readers (MA100/110, J-Reader, MA520 – and including the new SigmaMA operating in "Legacy mode".

This guide describes how to move the finger data to the MorphoManager Database. SigmaBio and SigmaProx Readers are supported supported under the new MorphoManager integration. The Sigma readers must be reconfigured to run in MA5G Mode to be compatible with the MorphoManager Client.

- ***The Legacy Biometric system supported HID-iClass/Mifare (26-Bit Wiegand and ABA)***
- ***The MorphoManager integration does not support Card encoding.***
- ***MorphoManager supports 26bit Wiegand and Corporate 1000.***

Draft edition JAN 2018

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Galaxy Sagem Enrollment to BioBridge Migration Notes

This migration utility will take cardholder name, card number, and biometric data from the System Galaxy database and insert it into the MorphoManager database for the purpose of migrating systems from the traditional “Galaxy/Sagem Biometric System” to the new “MorphoManager/BioBridge Integration system.

SCOPE OF FUNCTIONALITY

SG 8/9/10 (all versions) support the Traditional SG/Sagem System …

- Supported “Biometric Support” feature and “Biometric Reader count” in System Registration
- Supported setting the Biometric System “SG/Sagem Biometrics” in the System Settings screen.
- Enrolled fingers into SysGal Database, enroll card, and encode smartcards in Cardholder screen.
- Supported iClass HID 26-bit Wiegand, Mifare ABA,
- Supported SagemMA500, MA100/110, J-readers, as well as older MA300/200 models
- Supported the new MorphoTrack SigmaMA reader - if operating in “legacy mode”
- Finger data was stored in the SG Database in BLoB blob format.
- The MA_Loader Utility loaded users & biometric, and controlled, reader-recognition modes

SG 10.5.6 supports MorphoManager **10.4.16**

- Supports “Biometric Support” feature and “Biometric Reader count” in System Registration
- Supports setting the Biometric System “SG/MorphoManager Biometrics” in the System Settings screen.
- Enrolled fingers by launching BioBridge Module from the Cardholder screen.
- Supports 26-bit Wiegand, HID Corporate 1000,
- Supports SigmaBio, SigmaProx, SigmaMulti when running in MA5G Mode.
- Finger data is stored in the MorphoManager Database
- Finger data is loaded to the appropriate Sigma Reader by the MorphoManager Client, based on assigned access, User Profile, Wiegand Profile, etc.. System Galaxy does not store the biometric data at all.

SEE: the Galaxy **MorphoManager Guide** for instructions on how to install, register, configure the Sigma Readers and the MorphoManager Client software.

Requirements

1) System Galaxy must be upgraded to SG10.5.6 (min version)
2) **MorphoManager Version 10.4.16** must be installed and properly configured to connect to System Galaxy database and use the default access profile.

   See the Galaxy **MorphoManager Guide** for instructions on how to install, register, configure the Sigma Readers and the MorphoManager Client software

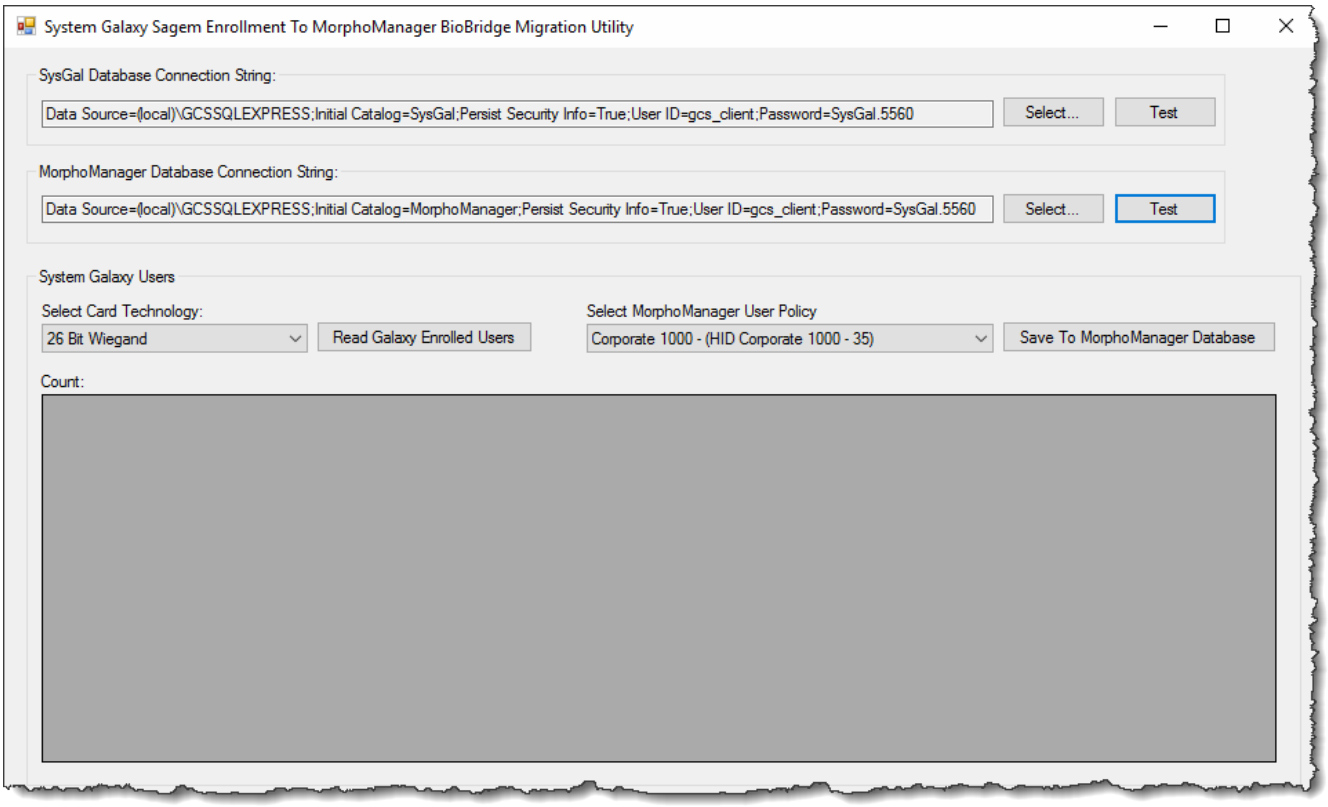
3) WARNING: Do not enroll any Galaxy users with BioBridge prior to migrating the existing data.
   After you migrate the biometric credentials, you must launch BioBridge from cardholder
4) There must be **User Policy** records created in MorphoManager for each *card technology* that exists in the Galaxy database cards for which biometric data exists.
   Example: if all biometric credentials in System Galaxy are 26 bit Wiegand,
   then you must create only one User Policy, which is configured for 26 bit Wiegand (Wiegand profile) , You must also create one Wiegand Profile for the 26-bit Wgn, and you must assign that profile to the System Configuration parameters, as well as the one User Policy.

   Example2: If there are some 26 bit wiegand and some Corporate 1000 users, then create two User Policies and you must also create two Wiegand Profiels (one for 26b Wgn and one for Corp-1000.

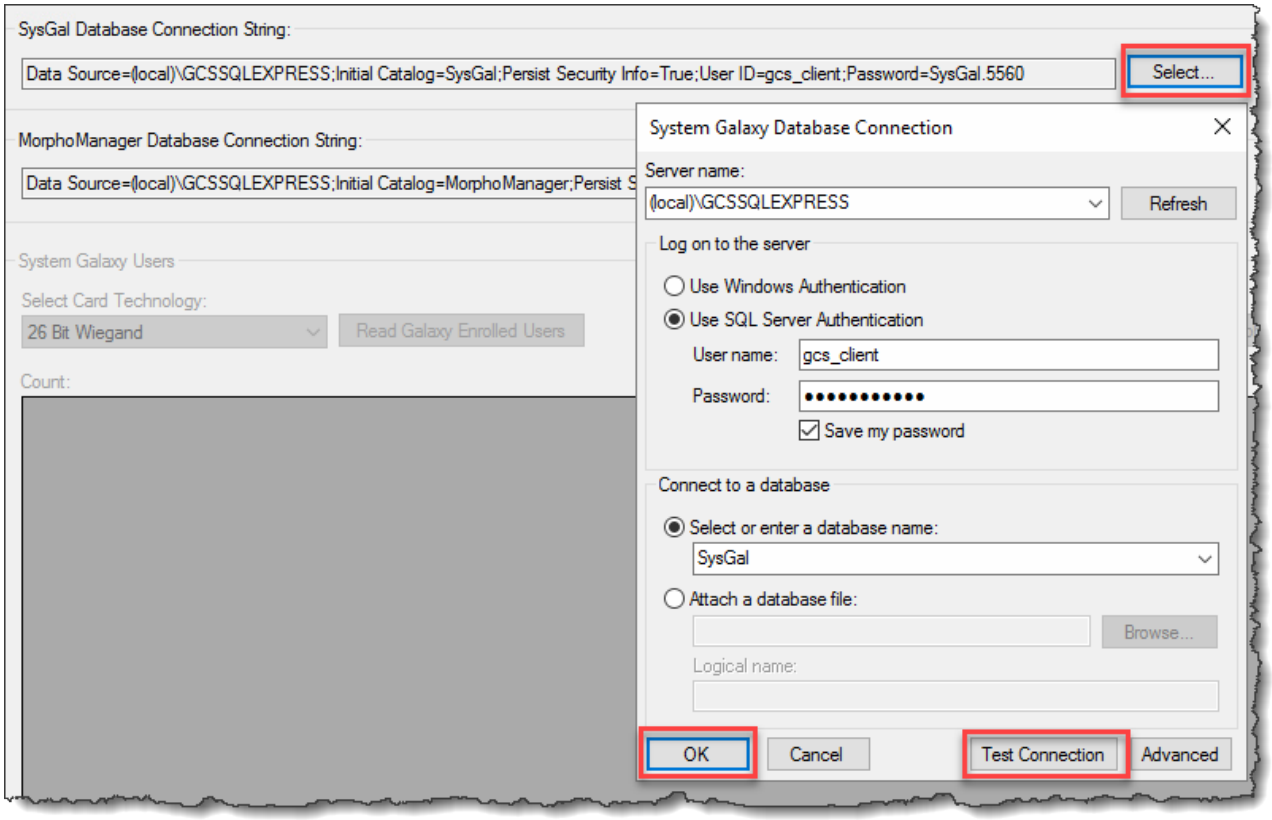
   be created in MorphoManager, each corresponding to the appropriate data format.
5) Cards are migrated by Card Technology type and are assigned to the appropriate User Policy in MorphoManager.
6) The machine where the migration utility will be ran (SGSagemEnrollmentToBioBridgeConverter.exe) must have access to both the System Galaxy and the MorphoManager SQL databases.

Conversion Process

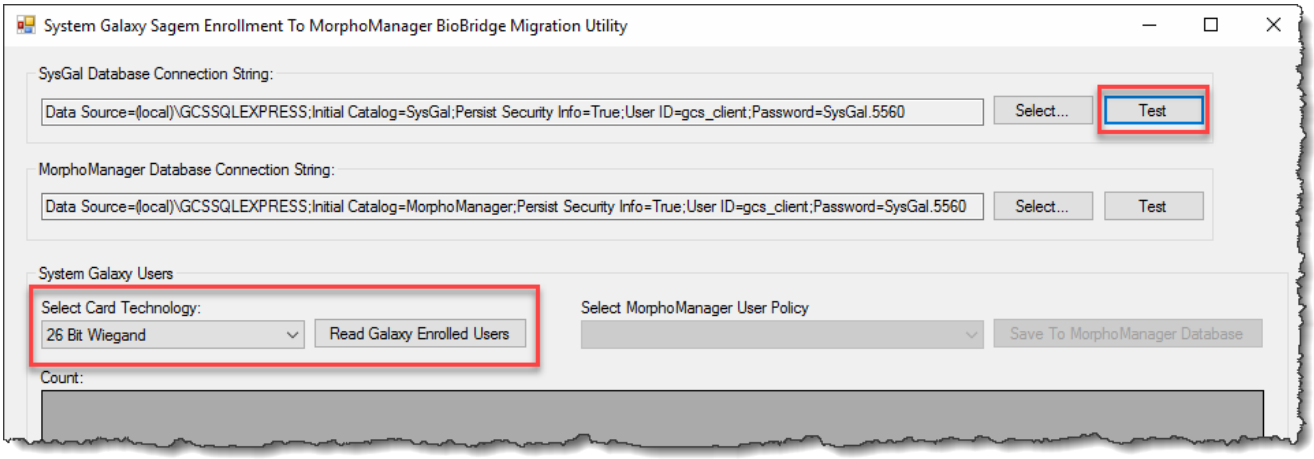
1) Shut-down MorphoManager
2) Stop the MorphoManager service
3) Run SGSagemEnrollmentToBioBridgeConverter.exe

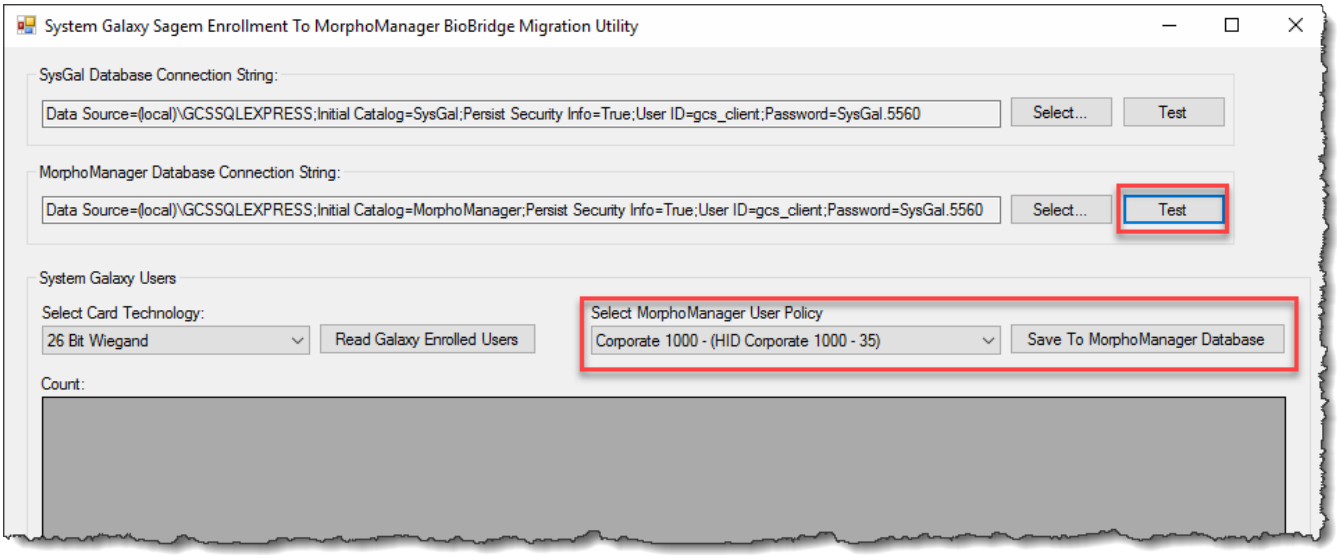


4) Using the **Select…** buttons, configure the database connection information for the System Galaxy and MorphoManager databases. Be sure to click the **Test Connection** button to verify the settings before clicking **OK**.

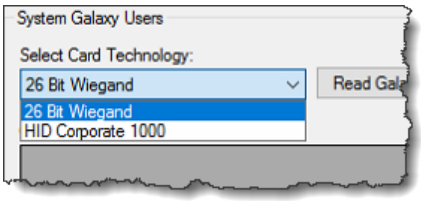


5) After both database connections have been properly configured, click both **Test** buttons that are located to the immediate right of the **Select…** buttons. If successful, the controls in the System Galaxy Users group will activate. The **Select Card Technology** list will contain an entry for each card technology from the System Galaxy database for which biometric enrolled cards exist. The **Select MorphoManager User Policy** list will contain an entry for each User Policy that exists in the MorphoManager database.

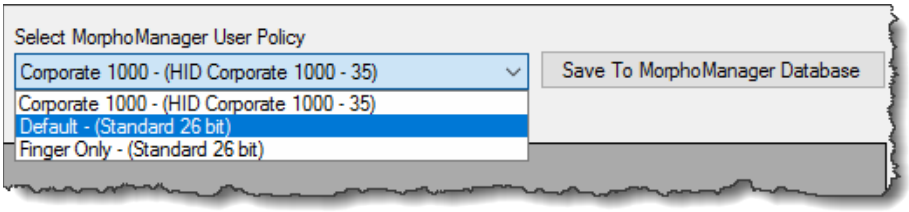




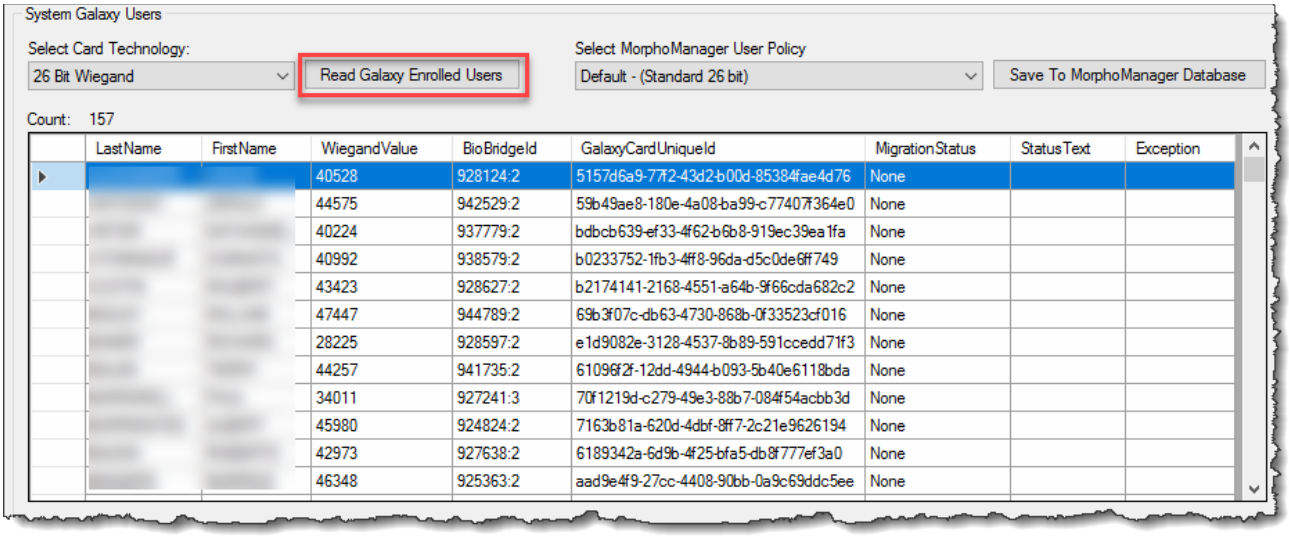
6) Each Card Technology group must be migrated separately. Select the Card Technology to be migrated.



7) Select the appropriate User Policy that corresponds to the selected card technology.

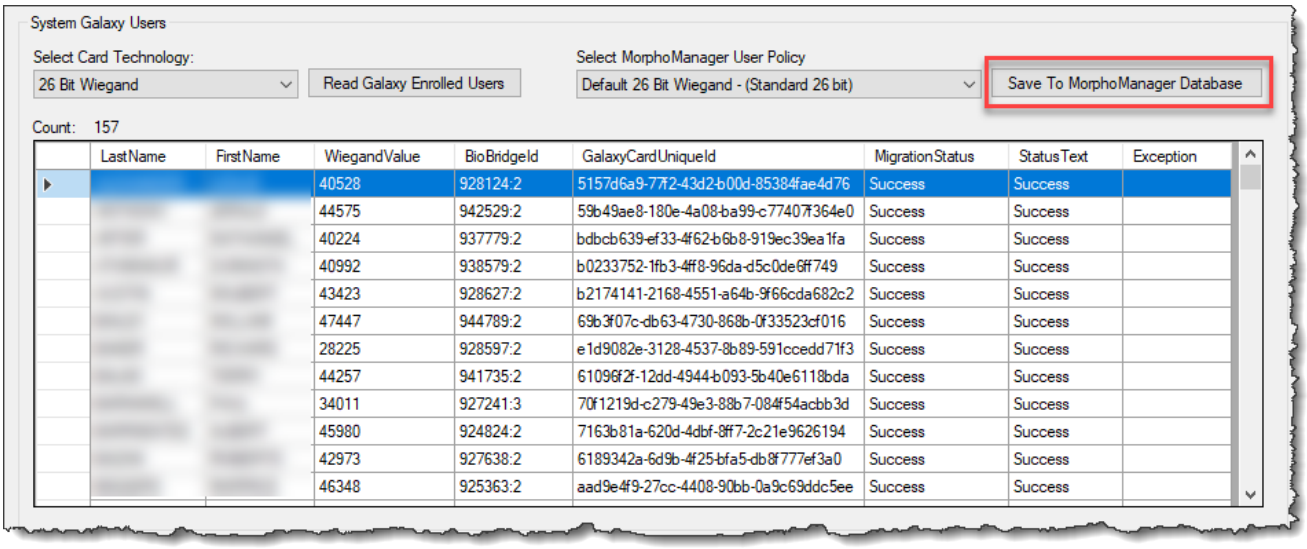


8) Click the **Read Galaxy Enrolled Users** button. The utility will retrieve all cardholders/card data from the System Galaxy database that have enrolled biometric data and are of the selected card technology.



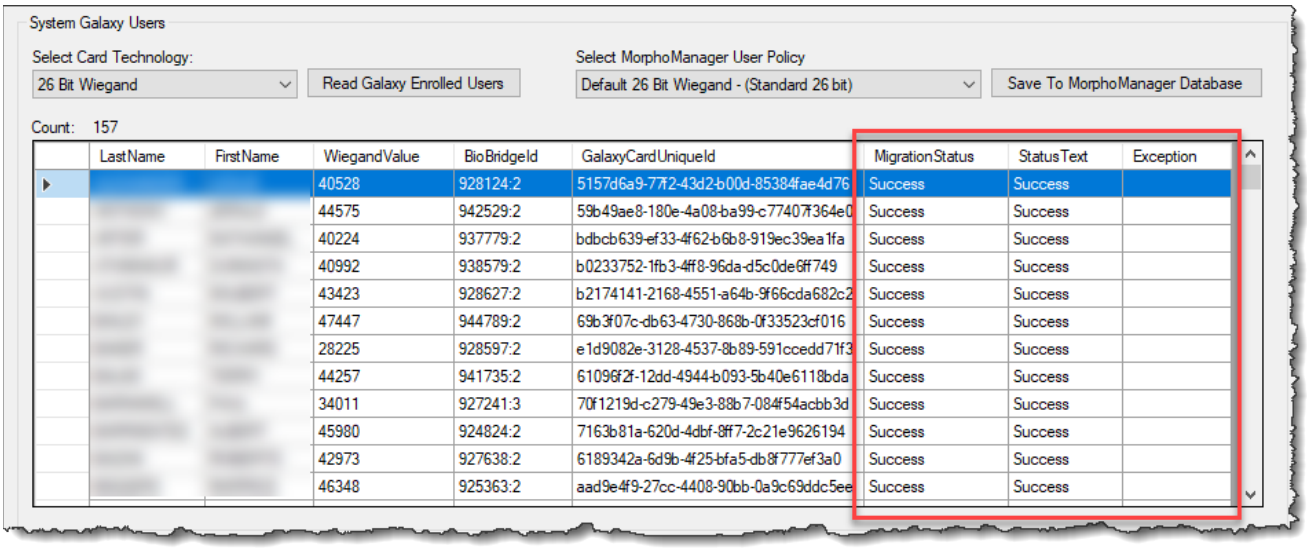
LastName	FirstName	WiegandValue	BioBridgeId	GalaxyCardUniqueId	MigrationStatus	StatusText	Exception
[redacted]	[redacted]	40528	928124:2	5157d6a9-77f2-43d2-b00d-85384fae4d76	None		
[redacted]	[redacted]	44575	942529:2	59b49ae8-180e-4a08-ba99-c77407f364e0	None		
[redacted]	[redacted]	40224	937779:2	bdbcb639-ef33-4f62-b6b8-919ec39ea1fa	None		
[redacted]	[redacted]	40992	938579:2	b0233752-1fb3-4ff8-96da-d5c0de6ff749	None		
[redacted]	[redacted]	43423	928627:2	b2174141-2168-4551-a64b-9f66cda682c2	None		
[redacted]	[redacted]	47447	944789:2	69b3f07c-db63-4730-868b-0f33523cf016	None		
[redacted]	[redacted]	28225	928597:2	e1d9082e-3128-4537-8b89-591ccedd71f3	None		
[redacted]	[redacted]	44257	941735:2	61096f2f-12dd-4944-b093-5b40e6118bda	None		
[redacted]	[redacted]	34011	927241:3	70f1219d-c279-49e3-88b7-084f54acbb3d	None		
[redacted]	[redacted]	45980	924824:2	7163b81a-620d-4dbf-8ff7-2c21e9626194	None		
[redacted]	[redacted]	42973	927638:2	6189342a-6d9b-4f25-bfa5-db8f777ef3a0	None		
[redacted]	[redacted]	46348	925363:2	aad9e4f9-27cc-4408-90bb-0a9c69ddc5ee	None		

9) When the correct selections have been made and the correct users are contained in the data grid, click the **Save To MorphoManager Database** button. This will begin the process of migrating/writing the data to the MorphoManager database.



LastName	FirstName	WiegandValue	BioBridgeId	GalaxyCardUniqueId	MigrationStatus	StatusText	Exception
[redacted]	[redacted]	40528	928124:2	5157d6a9-77f2-43d2-b00d-85384fae4d76	Success	Success	
[redacted]	[redacted]	44575	942529:2	59b49ae8-180e-4a08-ba99-c77407f364e0	Success	Success	
[redacted]	[redacted]	40224	937779:2	bdbcb639-ef33-4f62-b6b8-919ec39ea1fa	Success	Success	
[redacted]	[redacted]	40992	938579:2	b0233752-1fb3-4ff8-96da-d5c0de6ff749	Success	Success	
[redacted]	[redacted]	43423	928627:2	b2174141-2168-4551-a64b-9f66cda682c2	Success	Success	
[redacted]	[redacted]	47447	944789:2	69b3f07c-db63-4730-868b-0f33523cf016	Success	Success	
[redacted]	[redacted]	28225	928597:2	e1d9082e-3128-4537-8b89-591ccedd71f3	Success	Success	
[redacted]	[redacted]	44257	941735:2	61096f2f-12dd-4944-b093-5b40e6118bda	Success	Success	
[redacted]	[redacted]	34011	927241:3	70f1219d-c279-49e3-88b7-084f54acbb3d	Success	Success	
[redacted]	[redacted]	45980	924824:2	7163b81a-620d-4dbf-8ff7-2c21e9626194	Success	Success	
[redacted]	[redacted]	42973	927638:2	6189342a-6d9b-4f25-bfa5-db8f777ef3a0	Success	Success	
[redacted]	[redacted]	46348	925363:2	aad9e4f9-27cc-4408-90bb-0a9c69ddc5ee	Success	Success	

10) When completed, the **Status** column will contain a text description of the migration status for the specific record. A migration log file will also be created and opened in Notepad automatically.



LastName	FirstName	WiegandValue	BioBridgeId	GalaxyCardUniqueId	MigrationStatus	StatusText	Exception
[redacted]	[redacted]	40528	928124:2	5157d6a9-77f2-43d2-b00d-85384fae4d76	Success	Success	
[redacted]	[redacted]	44575	942529:2	59b49ae8-180e-4a08-ba99-c77407f364e0	Success	Success	
[redacted]	[redacted]	40224	937779:2	bdbcb639-ef33-4f62-b6b8-919ec39ea1fa	Success	Success	
[redacted]	[redacted]	40992	938579:2	b0233752-1fb3-4ff8-96da-d5c0de6ff749	Success	Success	
[redacted]	[redacted]	43423	928627:2	b2174141-2168-4551-a64b-9f66cda682c2	Success	Success	
[redacted]	[redacted]	47447	944789:2	69b3f07c-db63-4730-868b-0f33523cf016	Success	Success	
[redacted]	[redacted]	28225	928597:2	e1d9082e-3128-4537-8b89-591ccedd71f3	Success	Success	
[redacted]	[redacted]	44257	941735:2	61096f2f-12dd-4944-b093-5b40e6118bda	Success	Success	
[redacted]	[redacted]	34011	927241:3	70f1219d-c279-49e3-88b7-084f54acbb3d	Success	Success	
[redacted]	[redacted]	45980	924824:2	7163b81a-620d-4dbf-8ff7-2c21e9626194	Success	Success	
[redacted]	[redacted]	42973	927638:2	6189342a-6d9b-4f25-bfa5-db8f777ef3a0	Success	Success	
[redacted]	[redacted]	46348	925363:2	aad9e4f9-27cc-4408-90bb-0a9c69ddc5ee	Success	Success	

11) Examine the results.

THE END.