

# MorphoManager

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BioBridge

Galaxy Control Systems

System Galaxy

Quick Start Guide

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## Introduction

BioBridge is an enrollment and synchronization middleware that overlays enrollment and demographic synchronization between MorphoManager and third party data sources. The infrastructure is extensible and supports interfacing to multiple third party systems (one at a time) by the implementation of an interface. BioBridge is not dependent on the underlying technology platform required for integration.

BioBridge supports the following version of System Galaxy:

- 10.4.9

## Support

Please contact your installer for additional support.

## Setting up BioBridge

The following areas of MorphoManager will need to be configured as part of the System Galaxy BioBridge setup:

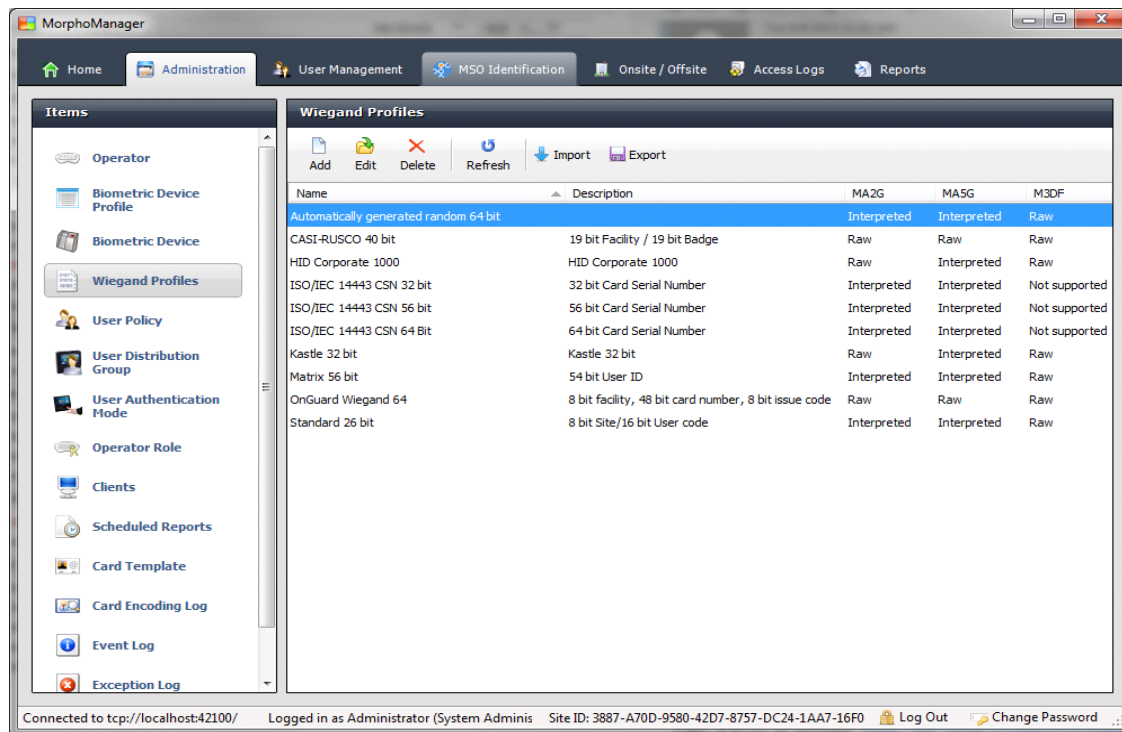
- Wiegand Profiles
- Biometric Device Profiles
- Biometric Device
- User Policy
- User Distribution Group
- BioBridge System Configuration


### Wiegand Profiles

Wiegand Profiles define what information is output over the Wiegand Out interface of the Morpho Biometric Devices when a user is identified. This is most typically used in conjunction with an Access Control System.

- From Administration tab select Wiegand Profile
- Click **Add** button to create a custom Wiegand profile.

The Wiegand formatting used can vary from system to system, but some common formats are listed below.

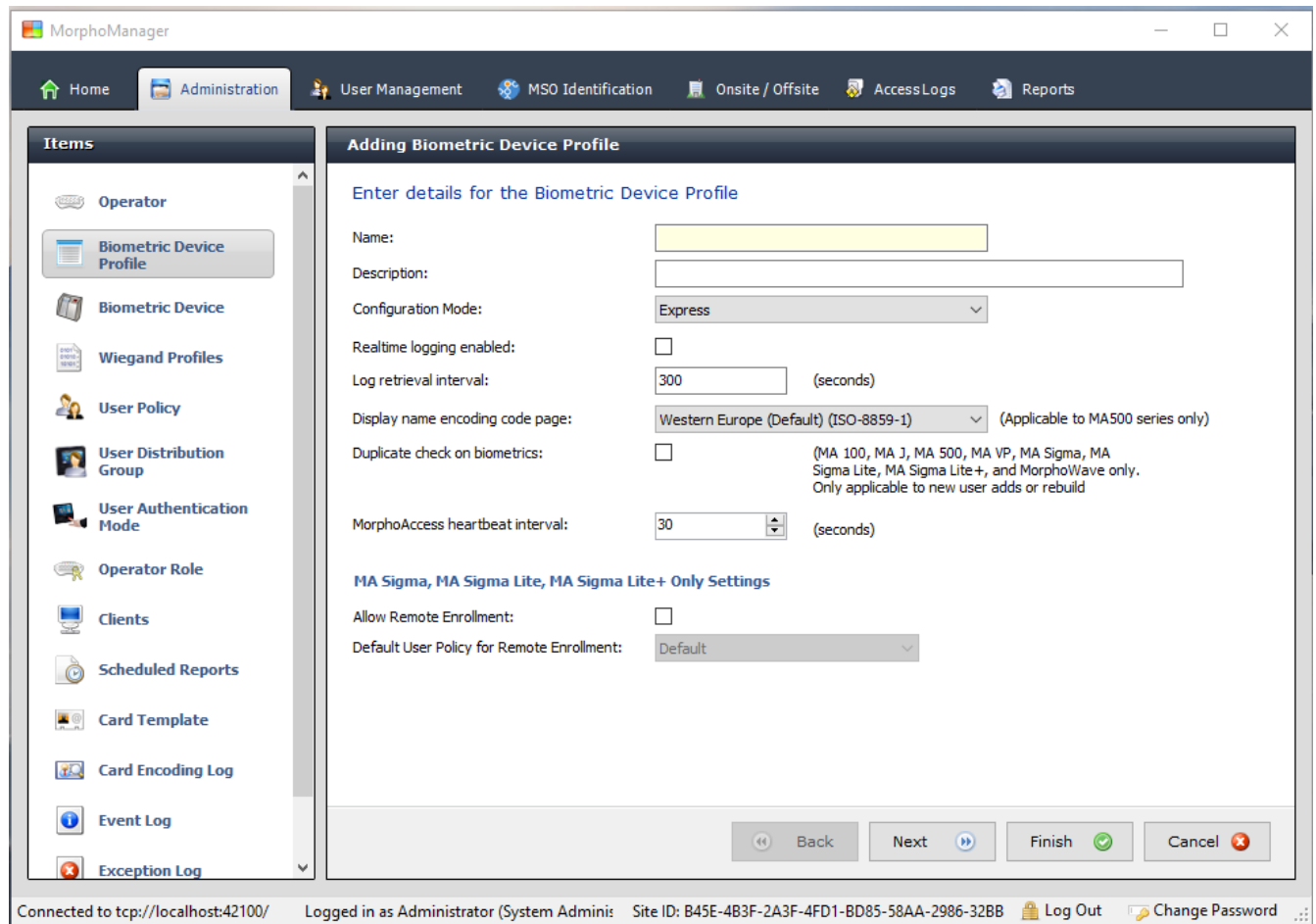


 The actual setting of the Wiegand Profile from this list will be done at the User Policy and Biometric Device Profile Level. Please refer to those sections for further details.

## Biometric Device Profile

The Biometric Device Profile will define common settings and parameters for one or more biometric devices. This profile can be applied when adding units into the system from the Biometric Device section of Administration.

- From Administration tab select Biometric Device Profile.
- Click **Add** button to create a new Biometric Device Profile.



In order to create the most basic profile utilizing biometrics stored on the devices that can be used, simply give the profile a name and click **Finish**. Please reference the [MorphoManager User Manual](#) for more detail on all the various properties that can be assigned to a Biometric Device Profile including the use of smartcards



If you plan on using a Wiegand Profile, you will need to set the Wiegand Profile for the Biometric Device(s) here. The Wiegand Profile you choose for your devices must marry to the one being utilized for your users set in the User Policy section of this guide.

## Biometric Device(s)

A Biometric Device is the device used to verify users and allow access to doors. They record a log of every attempt to gain access. MorphoManager is used to manage user’s access to Biometric Devices.

- From Administration tab select Biometric Device.
- Click **Add** button to create a new Biometric Device.
- Enter the details for the device including the Hardware Family the device falls into, the IP address, and the Biometric Device Profile.

- Once the required details are entered click **Finish**.


Below is a screenshot of how the Biometric Device Screen looks after the configuration and the devices are online..

## User Policy

User policies are used to apply access rights and rules to all members of the group.

To Configure BioBridge, MorphoManager’s UserPolicy with an Access Mode “**Per User**” must be selected. This will create User Distribution Groups (groups of Biometric Devices) that can place the enrolled user into specific devices.

- From Administration tab select User Policy.
- Click **Add** button to create a new User Policy.

 If you plan on using a Wiegand Profile, you will need to set it here in order for the users enrolled in this User Policy to have a particular Wiegand Profile. The Wiegand Profile you choose for your users must marry to the one you utilize for your biometric access devices set in the Biometric Device Profile section of this guide.

The default User Policy will be set to utilize an authentication mode of Biometric (1: Many). To utilize another authentication mode (such as encoding smartcards) additional User Policies can be created.

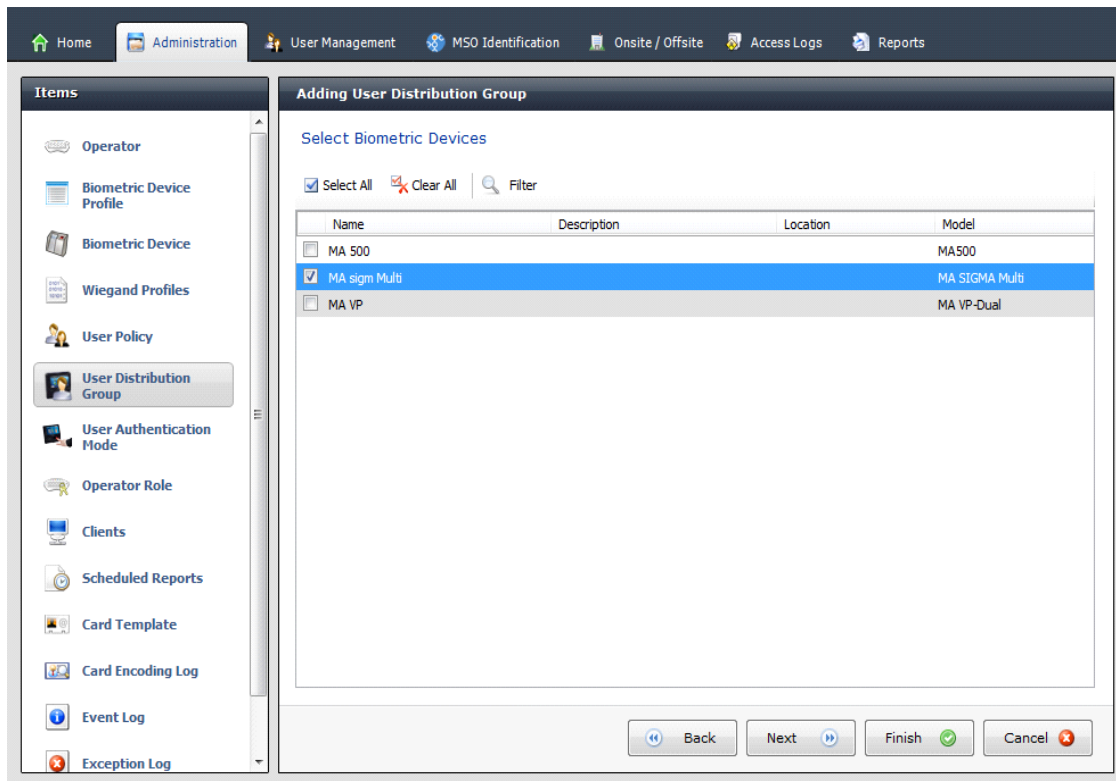
Please reference the MorphoManager User Manual for more detail on all the various properties that can be assigned to a User Policy including Wiegand Profile, Finger Biometric Enrollment Minimum, Fingers, Access Modes and User Authentication Modes.

## User Distribution Groups

User Distribution Groups are designed to distribute users onto groups of MA readers or MorphoManager Clients. In order to be utilized the user must be in a User Policy that has its Access Mode set to “Per User”. Then the User Distribution Groups will be selectable when creating (or editing) a user.

- From Administration tab select User Distribution Group.
- Click **Add** button to create a new User Distribution Group.

Below is the screenshot where group will only be placing users on one of the three devices installed on the system.





## BioBridge System Configuration

The last step in the process is to configure BioBridge specifications to System Galaxy.

From Administration, select System Configuration.  
 Select the BioBridge Tab in System Configuration.

**System Configuration**

Time & Attendance | Communications Engine | System Functionality | System Management | Gateways | Connector Service | **BioBridge** | Privacy Mode | Morpho Tablet | Password R

**MorphoManager BioBridge Settings**

System: None

Wiegand Profile:

Grouping Mode:

Enable Forced User Policy:  Enabled

Forced User Policy: Default

User Synchronization Start Time: 00:00

User Synchronization End Time: 23:59

Delay Between Each User Synchronization (ms): 50

Allow User Sync While User Cache Is Refreshing:  Enabled

User Cache Schedule:

Sunday  Monday  Tuesday  Wednesday  Thursday  Friday  Saturday

0:00  1:00  2:00  3:00  4:00  5:00  
 6:00  7:00  8:00  9:00  10:00  11:00  
 12:00  13:00  14:00  15:00  16:00  17:00  
 18:00  19:00  20:00  21:00  22:00  23:00

User Distribution Group Mappings:

Access Groups	User Distribution Group

**System:** From the System drop down menu choose System Galaxy and click the **Configure connection** button. A BioBridge connection box window will pop up. Fill in all the required fields and click OK.

BioBridge Galaxy Control Systems System Galaxy ✕

Please enter the SQL Server connection details for the server that is hosting the System Galaxy database.

Use basic connection string

**Server / Instance**

Please enter the hostname/address and instance name (if applicable) of the SQL Server you would like to connect to:

SQL Server:

**Logon details**

Please select the authentication mechanism to use to connect to the SQL Instance:

Use Windows Integrated Security

Use SQL Server User & Password

Username:

Password:

Use advanced connection string

Connection string:

**Wiegand Profile:** Select the Wiegand format in use from the drop down menu.

**Grouping Level Mode:** This setting determines how MorphoManager should map System Galaxy users into MorphoManager User Distribution Groups.

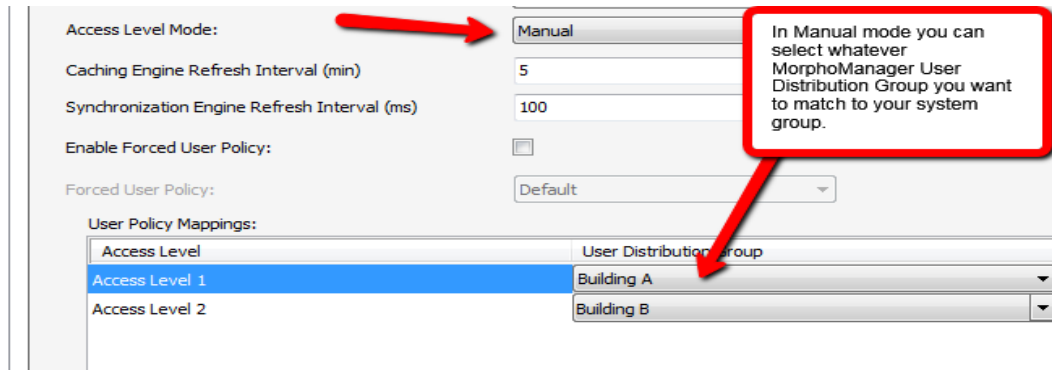
**Automatic:** This mode will automatically match Access Level groups from System Galaxy to the ones created in MorphoManager User Distribution Group if they have the same naming convention.

The screenshot shows the 'Access Level Mode' dropdown menu set to 'Automatic'. A red arrow points to this dropdown. Below it, the 'User Policy Mappings' table is visible, with 'Access Level 1' selected in the 'Access Level' column. A red arrow points to this selection. A red box highlights the 'Automatic' dropdown, with a text box containing the following explanation:

In Automatic mode the groupings from your system and the User Distribution Groups created in MorphoManager with the same name will match up. Those with no match would be left blank.

Access Level	User Distribution Group
Access Level 1	Access Level 1
Access Level 2	Access Level 2

**Manual:** If the Access Level grouping names of System Galaxy and the User Distribution Group(s) created in MorphoManager are not the same, then selecting which System Galaxy Access Level maps to which MorphoManager User Distribution Group can be done manually in the User Policy Mappings.



For basic setups, the following settings do not require any changes:

#### Enable Forced User Policy

By activating this feature, you can select a User Policy from the drop down menu. The 3<sup>rd</sup> party user will automatically be placed in this User Policy during the enrollment process started in the BioBridge Enrollment Client. The User Policy selected here must be a “Per User” access mode policy.

#### User Synchronization Start Time and End Time

The user synchronization engine will only be permitted to run in this time frame.

#### Delay between Each User Synchronization

The duration that the User Synchronization Engine will sleep between each user sync. Increase the delay time to use less system resources, but this will also extend the time it takes for all the users to be updated.

#### Allow User Sync While User Cached Is Refreshing

When enabled, the User Synchronization engine will run in parallel to the User Cache Refresh. This is very taxing on system resources. It is recommended to disable this setting when using large databases.

#### User Cache Refresh Schedule

The specified times when the user cache refresh may start. The ideal schedule would be 24/7, but this is not always possible with large databases.

## Using the BioBridge Enrollment Client

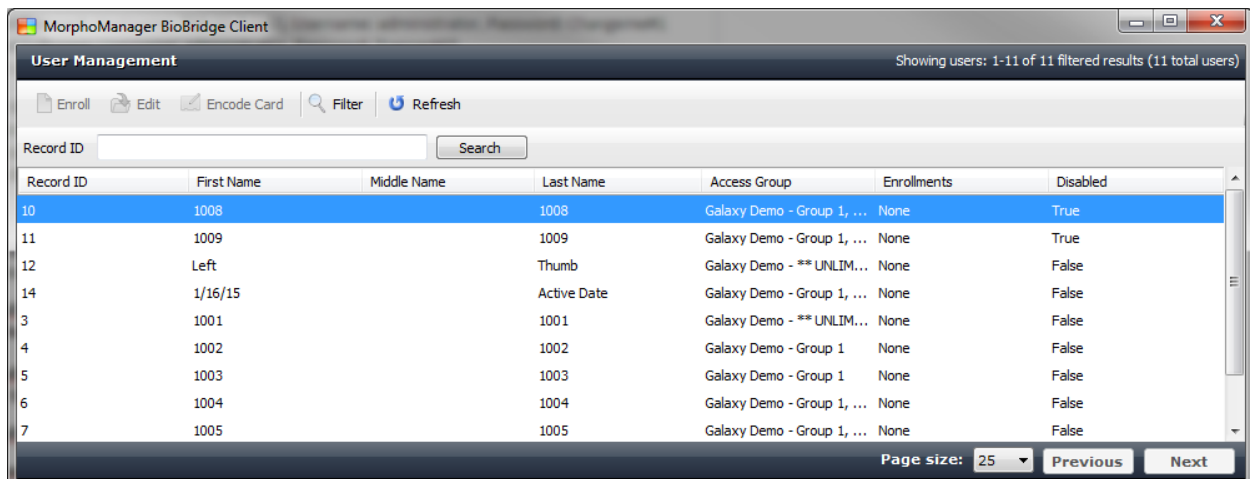
After configuring BioBridge you will now utilize the BioBridge Enrollment Client. This client will check if BioBridge Integration has been enabled and configured. If it is has not, the application will display the message “BioBridge integration has not been enabled and configured” and you will need to go back to MorphoManager/Administration/System Configuration/BioBridge to configure it properly.

If BioBridge integration is configured the application will display a user management screen. The screen will consist of a toolbar and a data grid.

### Toolbar

The toolbar will have the following items:

- Enroll
- Edit
- Encode Card
- Filter
- Refresh
- Search Field



### Enroll

Enroll will start the enrollment of the selected user. The enrollment process will be derived from the standard MorphoManager user add/edit wizard with the following pages (For details on the enrollment process please see the User Management section of the MorphoManager User Manual):

- Authentication Type (Only if more than one mode is configured)
- 3D Face Selection
- 3D Face Enrollment
- Finger Selection
- Finger Enrollment

If a card based authentication method is configured the operator will be prompted if they want to encode a card.

## Edit

Opens the already enrolled user details for viewing or editing.

## Encode Card

Encode card will display an animation of the card being presented to a SDI 011 and wait for the card encoding to complete or be cancelled.

## Filter

The screenshot displays a web interface for filtering users. It is divided into several sections:

- User Details:** Includes input fields for First Name, Middle Name, Last Name, Record ID, and Date of Birth. Below these is an 'Enabled' section with radio buttons for 'Any' (selected), 'Enabled', and 'Disabled'.
- Access Group:** Features a 'Select All' checkbox and a 'Clear All' button. A list of access groups is shown, with 'Galaxy Demo - \*\* NO ACCESS GROUP \*\*' selected. Other groups include 'Galaxy Demo - \*\* UNLIMITED ACCESS \*\*', 'Galaxy Demo - Group 1', 'Galaxy Demo - Group 2', and 'Galaxy Demo - Group 3'.
- User Wiegand values:** A table with 10 rows, each starting with 'N/A' and followed by an empty input field for an 'ID Code'.
- Sort By:** Three dropdown menus for sorting: Primary (Record ID Ascending), Secondary (Last Name Ascending), and Tertiary (First Name Ascending).

Filter will show a popup inline form that allows filtering on the following items:

- First Name
- Middle Name
- Last Name
- Record ID
- Date of Birth
- Enabled/Disabled
- Access Group

## Refresh

Refresh will update the data currently being shown using the currently set filter conditions.

## Search Field

The Search Field can be used to find individual users quickly and/or to migrate users from System Galaxy to the BioBridge Enrollment Client without waiting for a cache refresh.

## Data Grid

The data shown in the data grid is a combination of your system and MorphoManager. Only users that exist in your system will be shown. A MorphoManager user does not exist until the user is enrolled. By default pagination is set for the first 25 BioBridge users to be shown. Operators may change the pagination to 25, 50, 100 & 250.

The data grid will have the following columns:

- Record ID
- First name
- Middle name
- Last name
- Access Group – All of the groups that your user is a member of in your system.(Comma separated values)
- Enrollments (None, Finger, Finger & 3D Face, 3D Face) (Derived from linked MorphoManager User)
- Disabled- A value of either True or False will be present.

MorphoManager BioBridge Client

User Management Showing users: 1-11 of 11 filtered results (11 total users)

Enroll Edit Encode Card Filter Refresh

Record ID Search

Record ID	First Name	Middle Name	Last Name	Access Group	Enrollments	Disabled
10	1008		1008	Galaxy Demo - Group 1, ...	None	True
11	1009		1009	Galaxy Demo - Group 1, ...	None	True
12	Left		Thumb	Galaxy Demo - ** UNLIM...	None	False
14	1/16/15		Active Date	Galaxy Demo - Group 1, ...	None	False
3	1001		1001	Galaxy Demo - ** UNLIM...	None	False
4	1002		1002	Galaxy Demo - Group 1	None	False
5	1003		1003	Galaxy Demo - Group 1	None	False
6	1004		1004	Galaxy Demo - Group 1, ...	None	False
7	1005		1005	Galaxy Demo - Group 1, ...	None	False

Page size: 25 Previous Next

Details Logs Biometrics Hide Details

User has not been enrolled in MorphoManager

Date of Birth:

Selected Authentication:

User Group:

Disabled:

Export Photo Add Photo

Connected to tcp://dwest.identityone.net:42100/ Logged in as Administrator (Syst Site ID: 751C-225F-2738-4AD2-9C51-A06F-1519-D3F1 Log Out Change Password)

Enrolled user will show their MorphoManager details in the “Show Details” panel below the data grid. This area will be blank if the user has not been enrolled.

## **Embedded enrollment setup**

Embedded enrollment is not supported for System Galaxy.