

# MorphoManager

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## BioBridge

Honeywell WIN-PAK PE/SE

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 Honeywell WIN-PAK PE/SE:

- 3.3
- 4.3
- 4.4

## 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 Honeywell WIN-PAK SE/PE BioBridge setup:

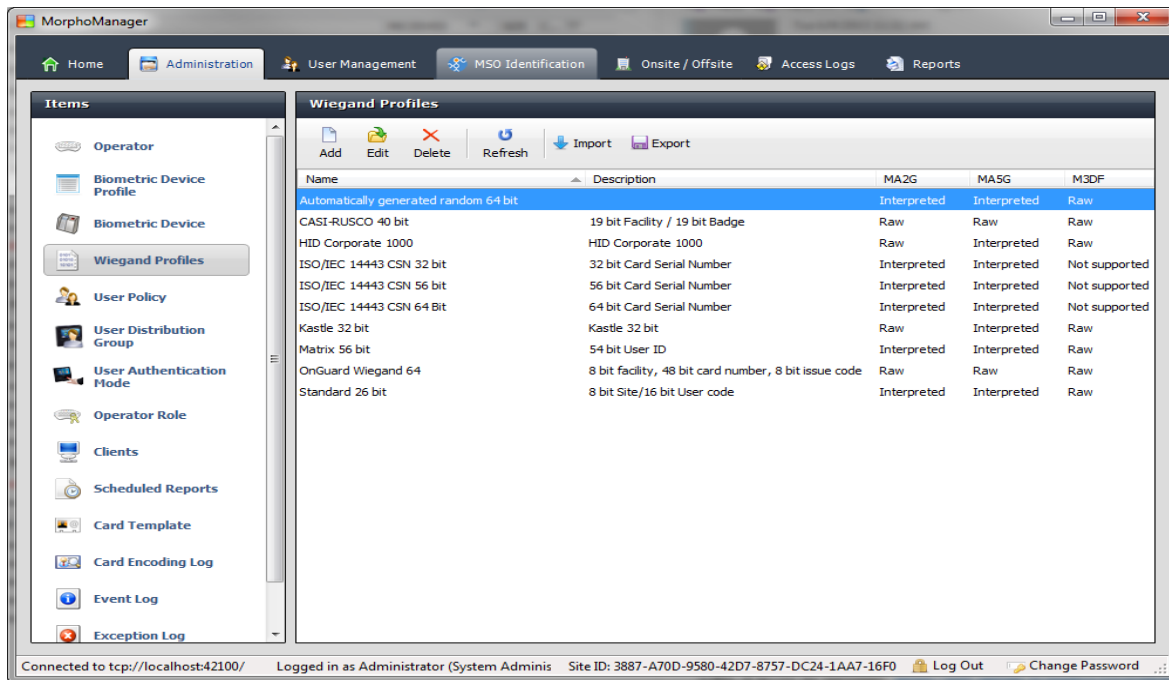
1. Wiegand Profiles
2. Biometric Device Profiles
3. Biometric Device
4. User Policy
5. User Distribution Group
6. BioBridge System Configuration

### 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 Group 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.

The screenshot shows the MorphoManager web application interface. The 'Administration' tab is selected, and the 'Biometric Device Profile' option is highlighted in the left-hand 'Items' menu. The main content area is titled 'Adding Biometric Device Profile' and contains the following fields and options:

- Name:** A text input field.
- Description:** A text input field.
- Configuration Mode:** A dropdown menu set to 'Express'.
- Realtime logging enabled:** An unchecked checkbox.
- Log retrieval interval:** A text input field with '300' and '(seconds)' next to it.
- Display name encoding code page:** A dropdown menu set to 'Western Europe (Default) (ISO-8859-1)' with a note: '(Applicable to MA500 series only)'. Below this, a note reads: '(MA 100, MA J, MA 500, MA VP, MA Sigma, MA Sigma Lite, MA Sigma Lite+, and MorphoWave only. Only applicable to new user adds or rebuild)'. There is also an unchecked checkbox for 'Duplicate check on biometrics:'.
- MorphoAccess heartbeat interval:** A text input field with '30' and '(seconds)' next to it.
- MA Sigma, MA Sigma Lite, MA Sigma Lite+ Only Settings:**
  - Allow Remote Enrollment:** An unchecked checkbox.
  - Default User Policy for Remote Enrollment:** A dropdown menu set to 'Default'.

At the bottom of the form are four buttons: 'Back', 'Next', 'Finish' (with a green checkmark), and 'Cancel' (with a red X).

The status bar at the bottom of the browser window shows: 'Connected to tcp://localhost:42100/ Logged in as Administrator (System Admini Site ID: B45E-4B3F-2A3F-4FD1-BD85-58AA-2986-32BB Log Out Change Password'.

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 Group 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 select Biometric Device.
- Click **Add** 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 you wish to utilize.

- 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.

Name	Description	Location	Biometric D...	Status	Tasks
MA sigm Multi			Default	Online	0

**MA sigm Multi**

**Description:**  
**Hardware Type:** MA SIGMA Multi  
**Serial Number:** 1431SMS0000243  
**Firmware version:** 1.3.2  
**Hostname/IP Address:** 10.10.214.11:11010  
**User Slots:** 0 / 3000  
**Time Zone:** (UTC-05:00) Eastern Time (US Canada)  
**Device Status:** 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.

**Adding User Policy**

Enter the details for this User Policy

Name:

Description:

Access Mode: All Biometric Devices and Clients ▾  
 Allow MA 500 database selection during user enrollment

Time Mask Mode: 24 Hours, 7 Days a Week ▾

Extended User Details:  Display extended user details

Wiegand Profile: Automatically generated random 64 t ▾

User Authentication Mode: Biometric (1:Many) ▾

Wave Enrollment Minimum Hands: None ▾

Finger Biometric Enrollment Minimum Fingers: Two ▾

Preferred Finger One: Left Index Finger ▾

Preferred Finger Two: Right Index Finger ▾

Preferred Duress Finger: Left Middle Finger ▾

Show Photo Capture Page:

Show Wave Biometric Capture Page:

Show Finger Biometric Capture Page:  (User Authentication Mode requires templates)



If you plan on using a Wiegand Profile, you will need to set it here in order for the users enrolled in this User Group 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.

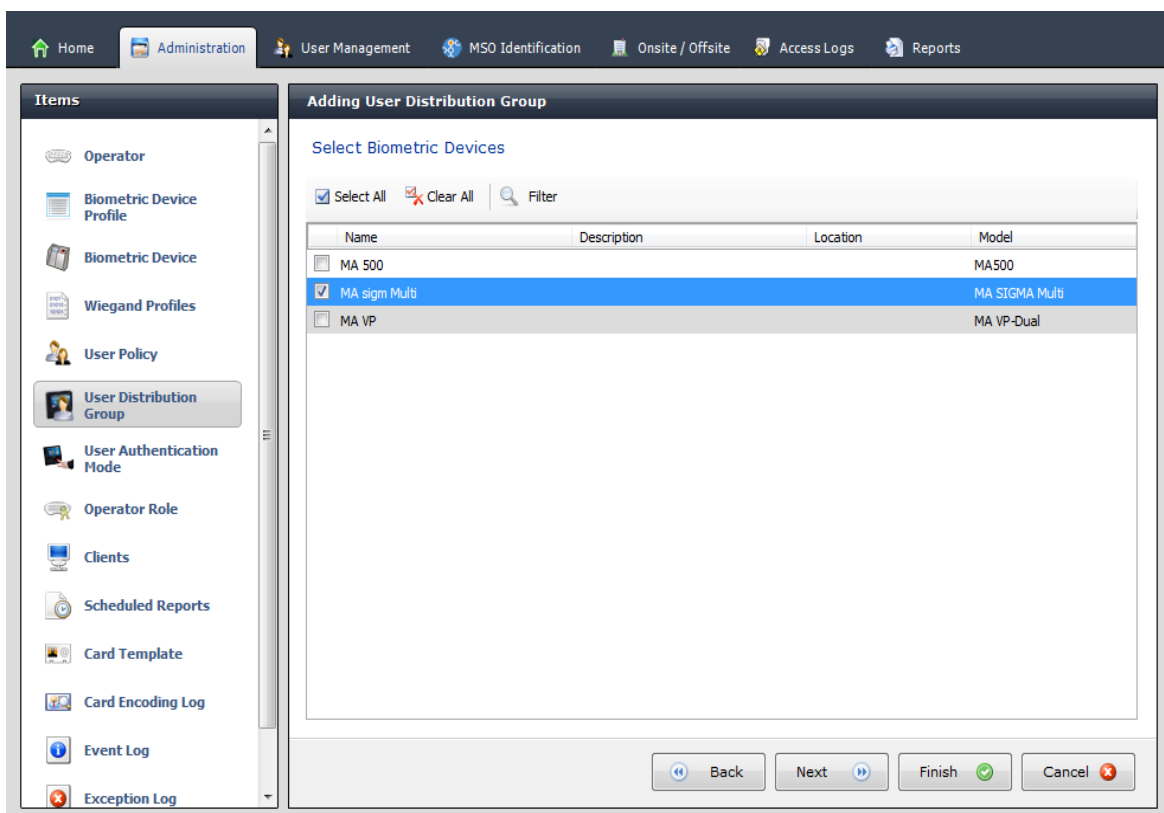
Please reference the MorphoManager User Manual for more detail on all the various properties that can be assigned to a User Policy including Wiegand Profile, Finger Biometric Enrollment Minimum, Fingers, Access Modes and User Authentication Modes.

## 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.

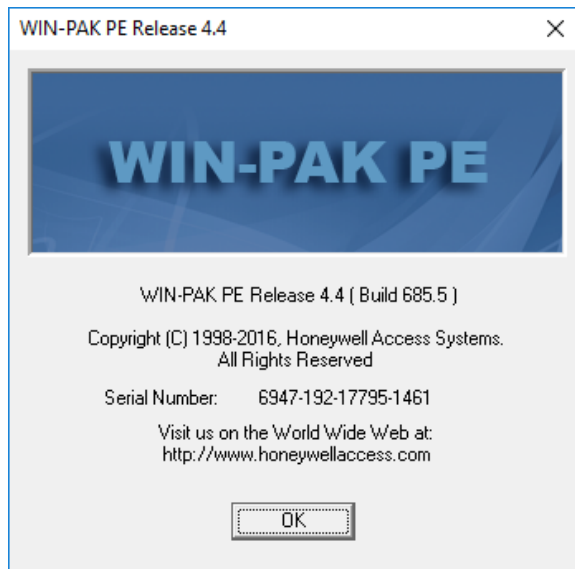




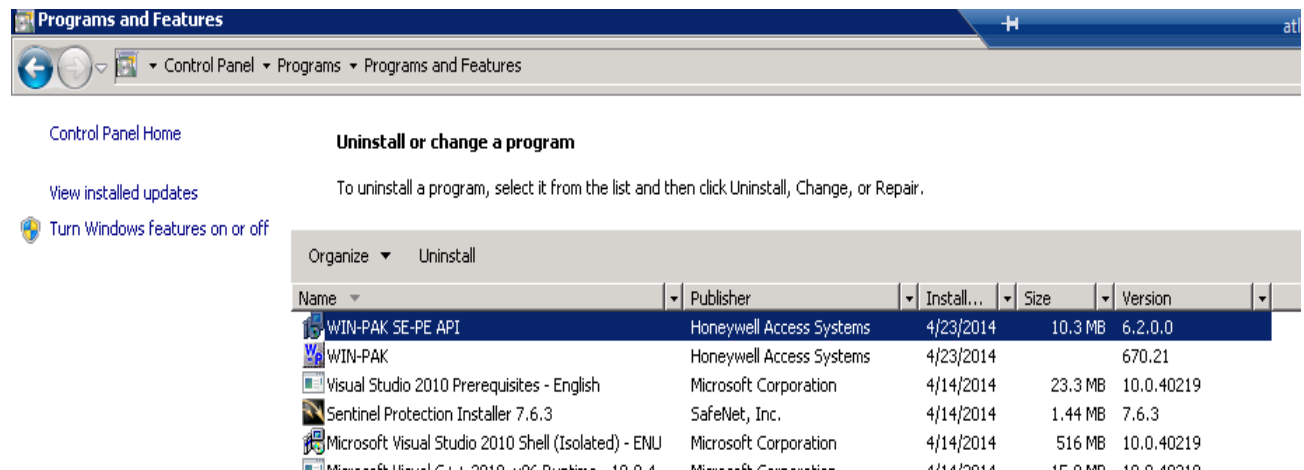
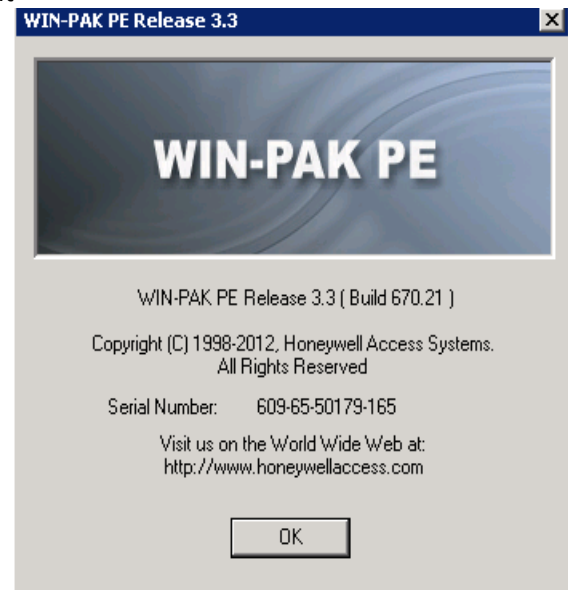
## BioBridge System Configuration

The last step in the process is to configure BioBridge specifications to Honeywell WIN-PAK SE/PE.

 Please note that BioBridge has been tested to work with WIN-PAK PE Release 3.3 (Build 670.21) & WIN-PAK PE Release 4.4 (Build 685.5) and will need to have the WIN-PAK Database Server API installed on the WIN-PAK Server machine. Additionally, if MorphoManager is installed on a separate machine, then the WIN-PAK Database Client API needs to be installed there. Lastly, WIN-PAK and MorphoManager must be on the same domain or workgroup.



paint



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

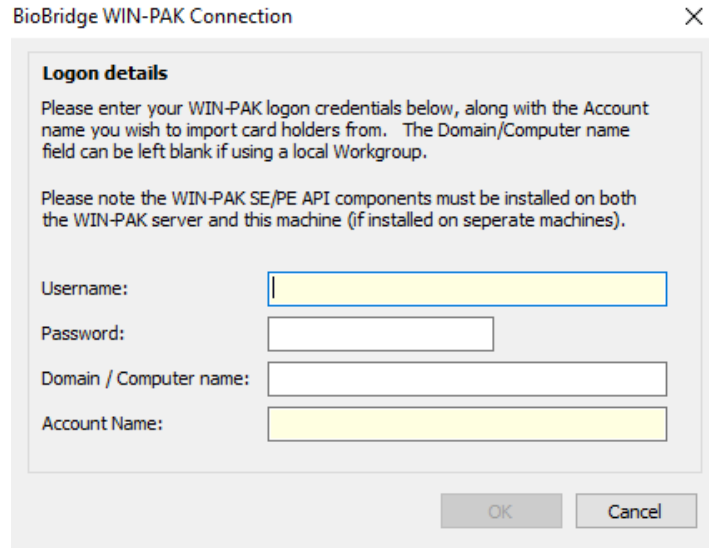
12:00  13:00  14:00  15:00  16:00  17:00

18:00  19:00  20:00  21:00  22:00  23:00

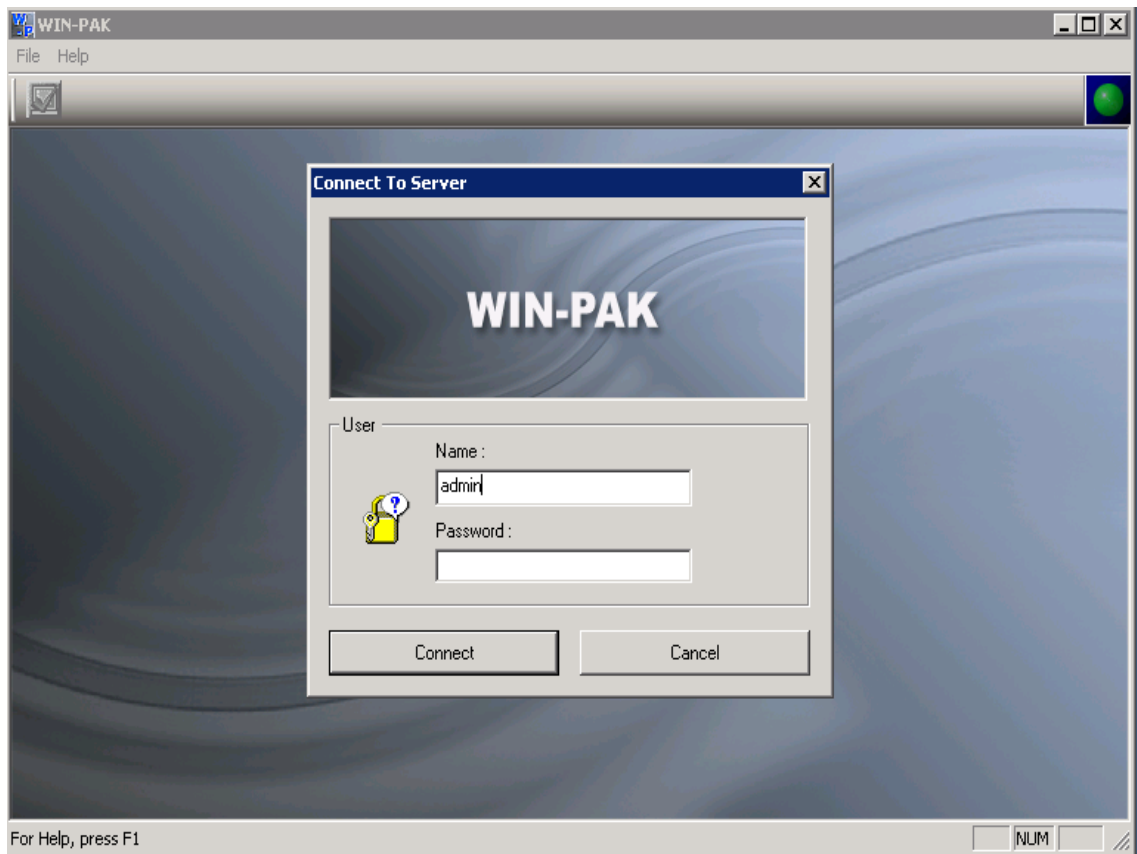
User Distribution Group Mappings:

Access Groups	User Distribution Group

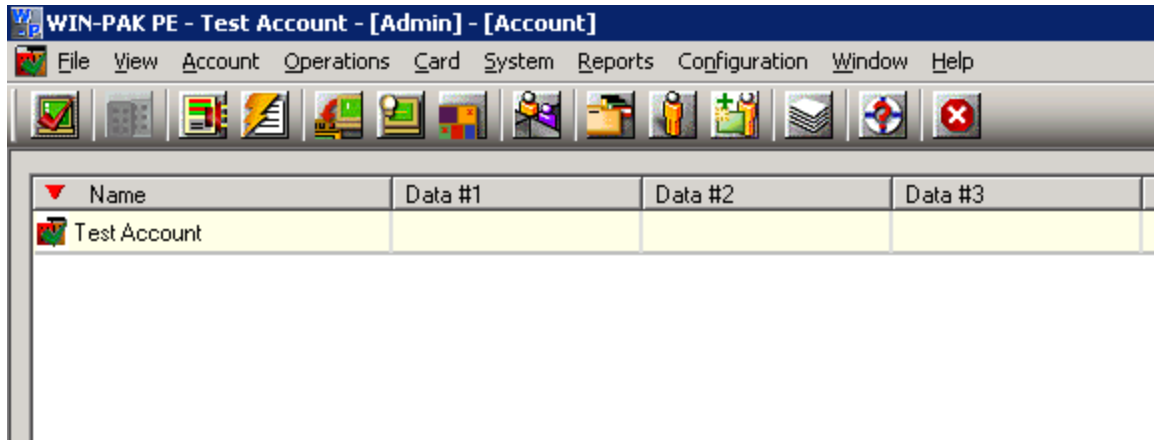
**System:** From the System drop-down menu select either *Honeywell WIN-PAK PE/SE DB API 6.8 (v4.3 and below)* or *Honeywell WIN-PAK PE/SE DB API 6.8 (v4.4 and above)* and click the **Configure connection** button. A BioBridge connection box window will pop up. Fill in all the required fields and click OK.



The WIN-PAK logon credentials are found on the WIN-PAK Log In screen below.



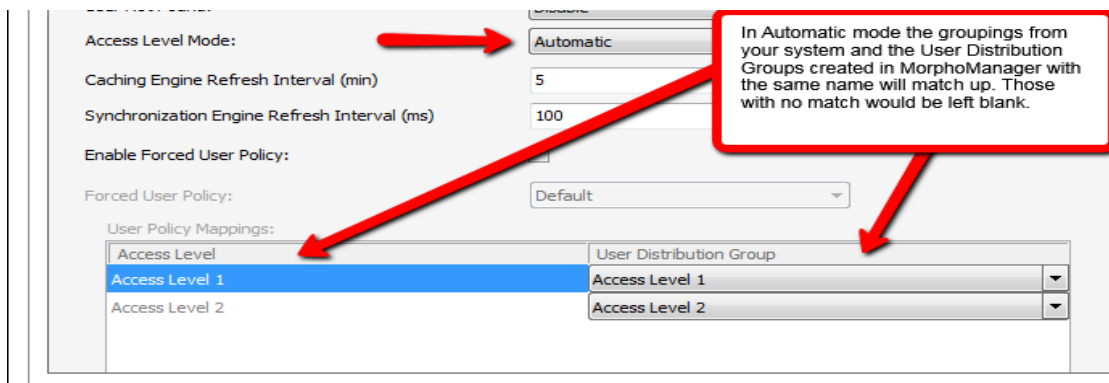
The Account List and Account name you want to use can found in WIN-PAK under Account>Edit.



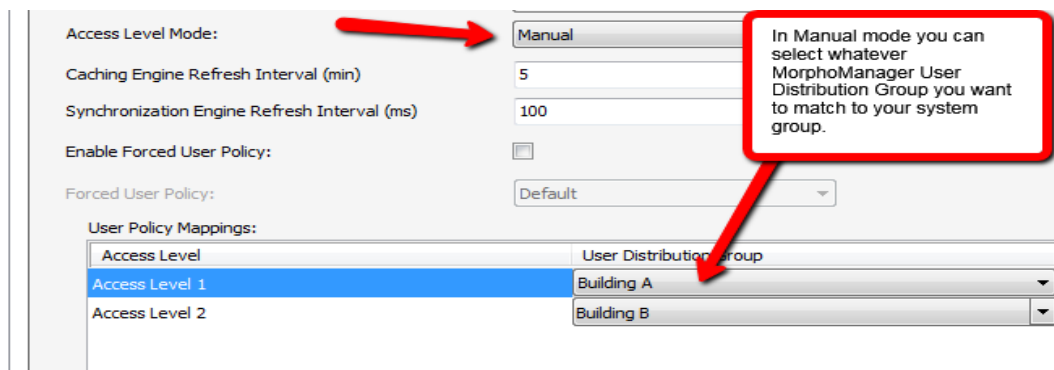
**Wiegand Profile:** Select the Wiegand format in use from the drop down menu.

**Grouping Level Mode:** This setting determines how MorphoManager should map Win-Pak users into MorphoManager User Distribution Groups.

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



**Manual:** If the Access Level grouping names of Win-Pak and the User Distribution Group(s) created in MorphoManager are not the same, then selecting which Win-Pak 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

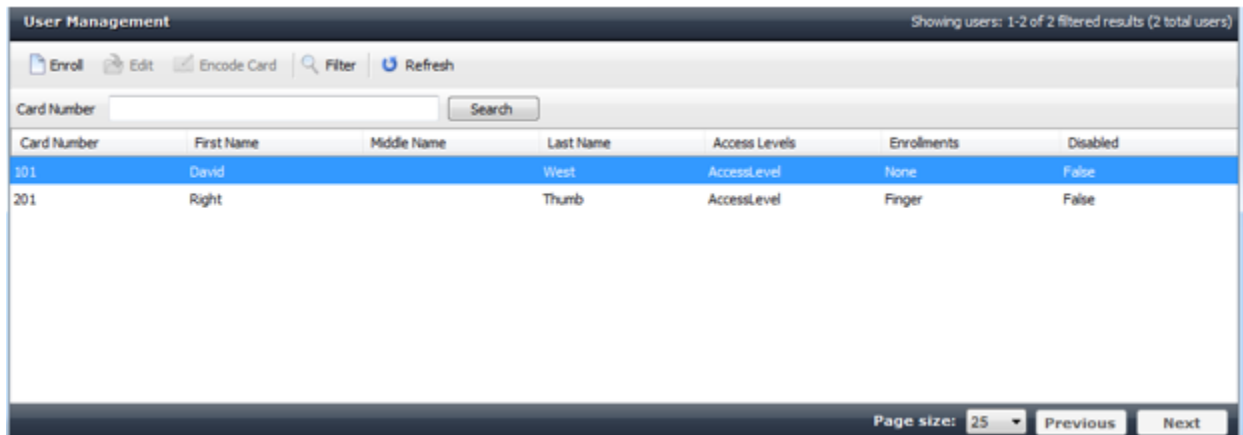
After configuring BioBridge you will now utilize the BioBridge Enrollment Client. This client will check if BioBridge Integration has been enabled and configured. If it is has not the application will display the message “BioBridge integration has not been enabled and configured” and you will need to 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



The screenshot shows the 'User Management' interface. At the top right, it says 'Showing users: 1-2 of 2 filtered results (2 total users)'. The toolbar includes icons for Enroll, Edit, Encode Card, Filter, and Refresh. Below the toolbar is a search field labeled 'Card Number' with a 'Search' button. The main area is a table with the following data:

Card Number	First Name	Middle Name	Last Name	Access Levels	Enrollments	Disabled
101	David		West	AccessLevel	None	False
201	Right		Thumb	AccessLevel	Finger	False

At the bottom right, there is a 'Page size: 25' dropdown menu and 'Previous' and 'Next' buttons.

### 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 shows a 'Filter' dialog box with the following components:

- User Details:** Four text input fields for 'First Name', 'Middle Name', 'Last Name', and 'Card Number'. Below them are three radio buttons for 'Enabled': 'Any' (selected), 'Enabled', and 'Disabled'.
- Access Levels:** Two buttons, 'Select All' and 'Clear All'. Below is a list with one item, 'AccessLevel', which is highlighted in blue.
- User Wiegand values:** A text input field for 'Card ID Number'.
- Sort By:** Three dropdown menus: 'Primary:' set to 'Card Number Ascending', 'Secondary:' set to 'Last Name Ascending', and 'Tertiary:' set to 'First Name Ascending'.
- Buttons:** 'Reset Filters' (with a trash icon), 'OK' (with a green checkmark), and 'Cancel' (with a red X).

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

- First Name
- Last Name
- Card Number
- Enabled/Disabled
- Access Level

## Refresh

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

## Search Field

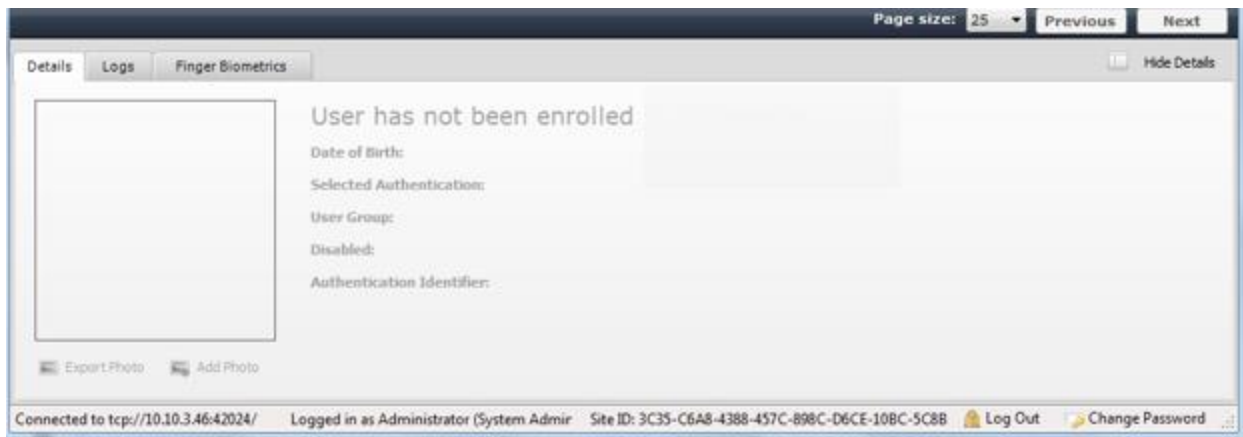
The Search Field can be used to find individual users quickly and/or to migrate users from Honeywell WIN-PAK SE/PE to the BioBridge Enrollment Client without waiting for a cache refresh.

## 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:

- Card Number
- First name
- Middle Name
- Last name
- Access Levels – 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.



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 Honeywell WIN-PAK PE/SE.