

# How to Encoded Mifare card and Finger



**Design for: Sigma Multi and Sigma Lite Multi**

**They might be some difference in screen shots to your current version of Software\*\***

# Requirements

- Morpho manager software (<http://service.morphotrak.com/software-links.html>)
- You need a Omnikey , to encode onto your Mifare Card
- Omnikey 5021 CL or
- Omnikey 5321
- You would require a MSO to capture fingerprints
- **\*\* if none of this devices see last page for advance users\*\***



# Step One

- Step One

# *1-User Policy*

- *Create or Add new User Policy*
- Select the User Policy that this user will belong to. This is an important selection, as the policy will determine Biometric Device access and other access control and time & attendance settings.

Add a new User Policy

# 1-User Policy

Name it

Operator

Key Policy

Biometric Device Profile

Biometric Device

Wiegand Profiles

**User Policy**

Access Schedules

User Distribution Group

Enter the details for this User Policy

Name: Mifare and Bio

Description:

Access Mode: All Biometric Devices and Clients

Allow MA 500 database selection during user enrollment

Access Schedule: 24 hours, 7 days a week

Extended User Details:  Display extended user details

Wiegand Profile: Standard 26 bit

User Authentication Mode: Encoded Smartcard + Biometric (1:1)

Show Photo Capture Page:

Select the Wiegand Profile you wish to use for users in this User Policy.

UAM is set to Encoded Smartcard + Biometric

Click Finish

# Step Two

- Step Two

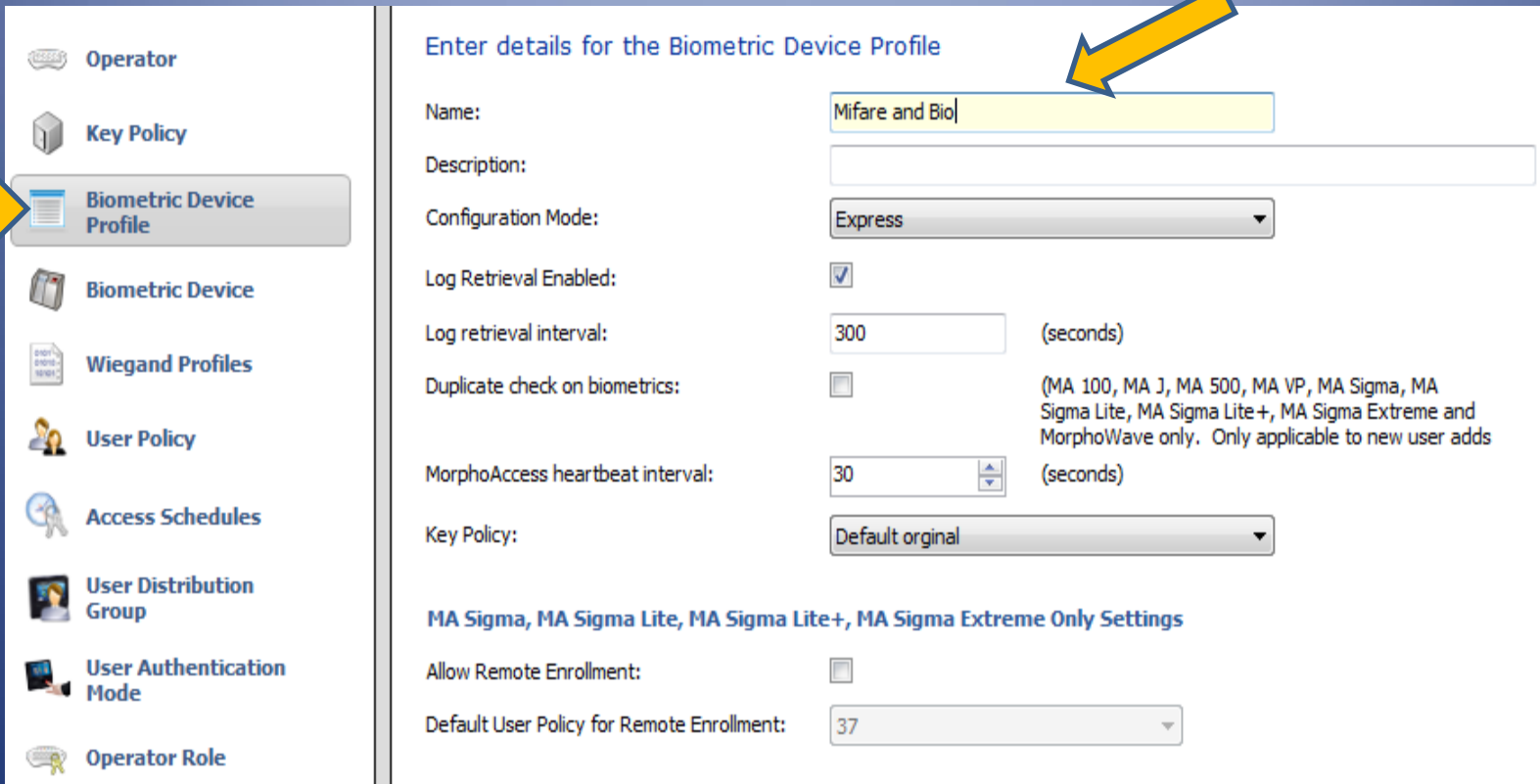
## *2-Biometric Device Profile*

- **Edit or Add new Biometric Device Profile**
- **Path Administration>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.**

# 2-Biometric Device Profile

Edit or Add new  
Biometric Device  
Profile

Name it



Enter details for the Biometric Device Profile

Name:

Description:

Configuration Mode:

Log Retrieval Enabled:

Log retrieval interval:  (seconds)

Duplicate check on biometrics:  (MA 100, MA J, MA 500, MA VP, MA Sigma, MA Sigma Lite, MA Sigma Lite+, MA Sigma Extreme and MorphoWave only. Only applicable to new user adds)

MorphoAccess heartbeat interval:  (seconds)

Key Policy:

**MA Sigma, MA Sigma Lite, MA Sigma Lite+, MA Sigma Extreme Only Settings**

Allow Remote Enrollment:

Default User Policy for Remote Enrollment:

Click Next



# 2-Biometric Device Profile

Select the Wiegand Profile to be utilized on the Biometric Device.

## Biometric Device Settings

### General Settings

Wiegand Profile:

Standard 26 bit

Language:

English

### Biometric Threshold Settings

Biometric Threshold:

Recommended

MorphoAccess Vein Print Mode:

Vein and Fingerprint

MorphoAccess Fingerprint Threshold:

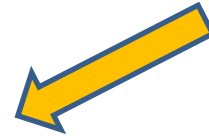
3

Morpho 3D Face Identification Threshold:

Medium

Morpho 3D Face Verification Threshold:

Low



Click Next

# 2-Biometric Device Profile

**Multi-Factor Mode Settings**

Multi-Factor Mode:

Contactless Smart Card Mode:

**Morpho 3D Face Multi-Factor Mode**

Mode:

**MorphoAccess 100, 500, J, VP Multi-Factor Mode**

Mode:

**MA SIGMA, MA SIGMA Lite, MA Sigma Lite+ Multi-Factor Modes**

Biometric:	<input type="checkbox"/>
Proximity Card:	<input type="checkbox"/>
Wiegand In:	<input type="checkbox"/>
Keypad:	<input type="checkbox"/>
HID iClass:	<input type="checkbox"/>
Mifare Classic:	<input checked="" type="checkbox"/>
Mifare DESFire:	<input type="checkbox"/>
Mifare DESFire EV1:	<input type="checkbox"/>

Select Mifare Classic

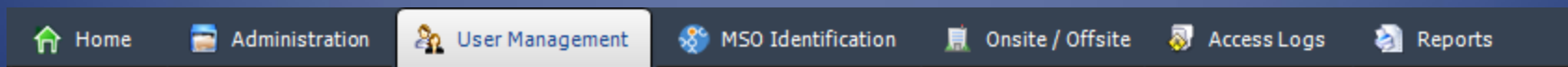
Click Finish

# Step Three

- Step Three

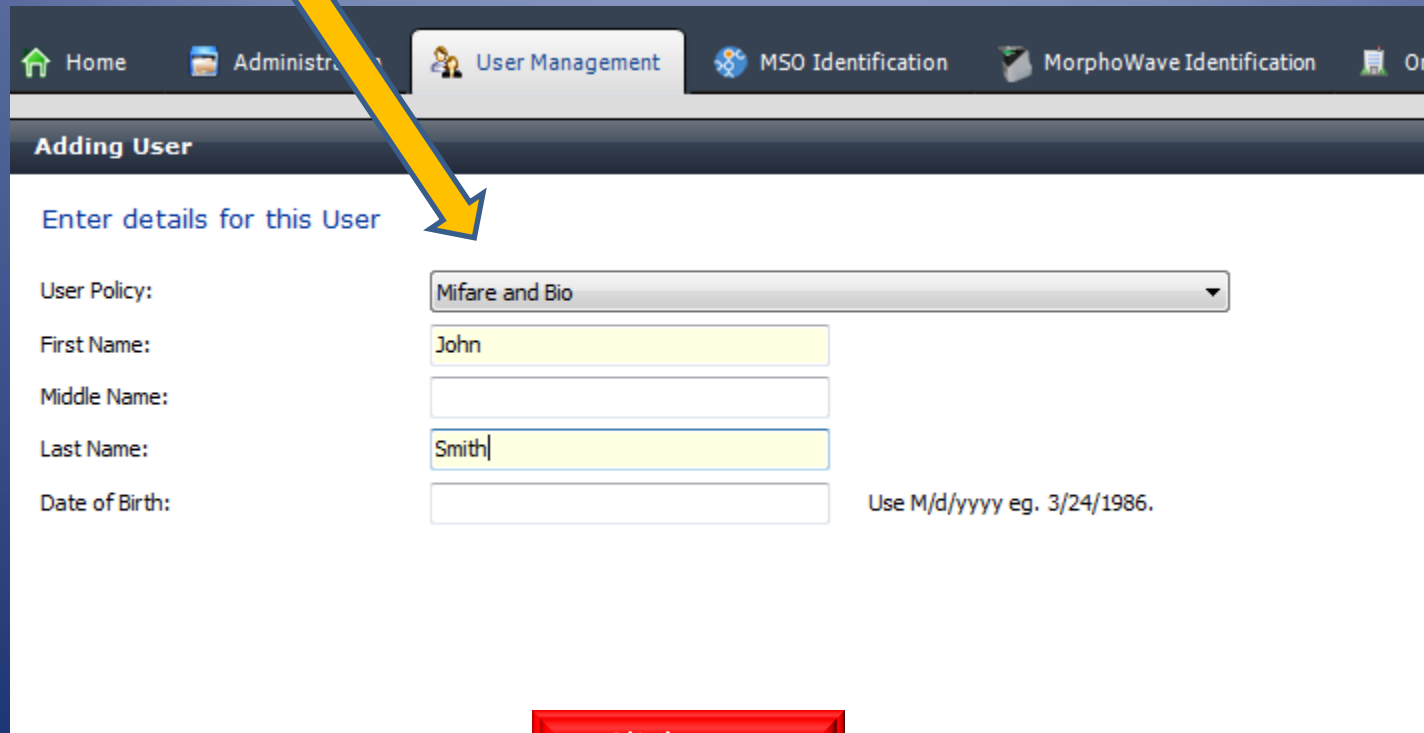
# *3-User Management*

- Users are people who will have their biometric data sent to the selected Biometric Device for identification purposes for either access control or time and attendance.
- Go to User Management



# 3-User Management

## ➤ Assign your User Policy

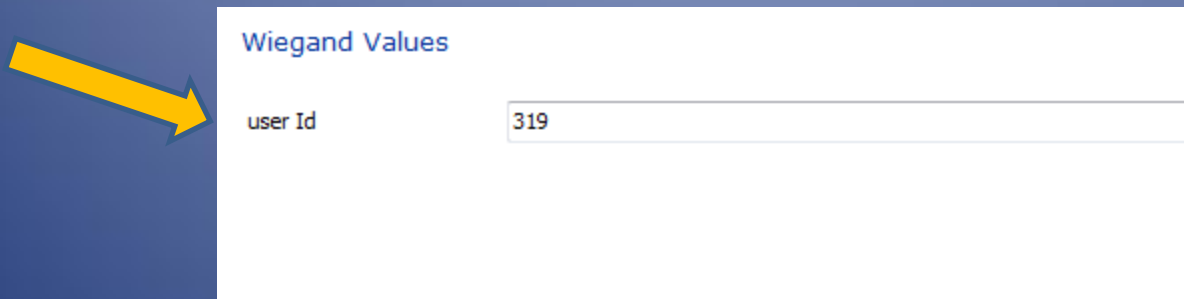


The screenshot shows a web application interface for adding a new user. At the top, there is a navigation bar with icons and labels for 'Home', 'Administration', 'User Management', 'MSO Identification', 'MorphoWave Identification', and 'On'. Below this is a sub-header 'Adding User'. The main content area is titled 'Enter details for this User' and contains several input fields: 'User Policy' (a dropdown menu with 'Mifare and Bio' selected), 'First Name' (text input with 'John'), 'Middle Name' (empty text input), 'Last Name' (text input with 'Smith'), and 'Date of Birth' (empty text input). A yellow arrow points from the 'Assign your User Policy' text to the 'User Policy' dropdown. To the right of the 'Date of Birth' field, there is a note: 'Use M/d/yyyy eg. 3/24/1986.'

Click Next

# *3-User Management*

- The User Id could be the card number or it could be a number you want to associate with this User.
- The User ID number has to fit within your wiegand structure( if using ACP)



Wiegand Values

user Id	319
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A screenshot of a web form titled "Wiegand Values". The form has a white background and a thin border. It contains a single row with a label "user Id" on the left and a text input field on the right containing the number "319". A yellow arrow with a blue outline points from the left towards the "user Id" label.

The User ID will be sent to your Access Control Panel ( if using ACP)

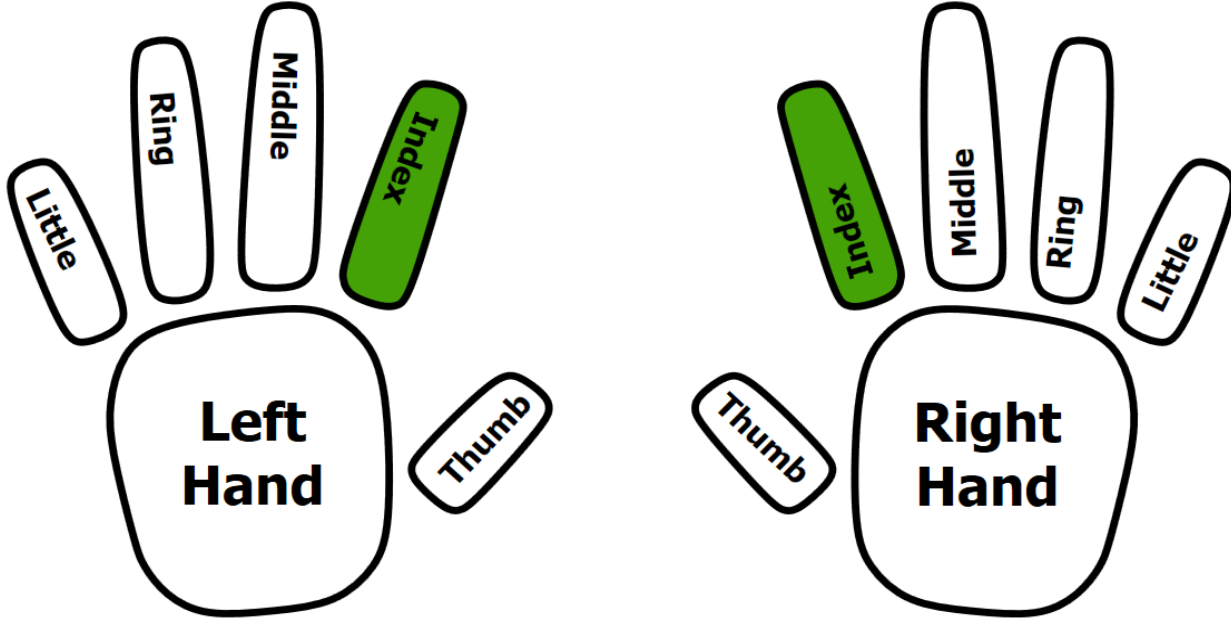
Click Next

# 3-User Management

## ➤ Capture your fingerprints

Finger Biometric Enrollment

Click a finger to begin capture



Left Hand

Right Hand

Finger 1

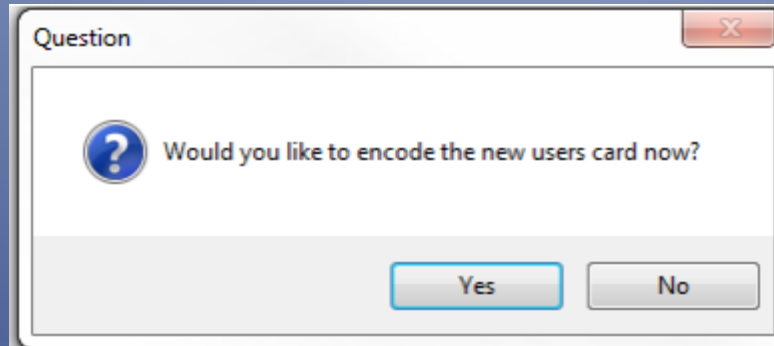
Finger 2

Duress Finger

Click Next

# *3-User Management*

- It will prompt you to encode the card, say Yes
- Place your card on the Omnikey or Sigma



Your done



- ***Advance Users***

- ***Instructions if No MSO***
- ***Instructions if No Omnikey***
- ***Instructions on combinations***



- **\*\*Morpho Manager Client \*\***
- Path>Administration> Client>click (This computer) and Edit
- Click next 5 times till you get to Enrollment devices



- **\*\*\*\*No MSO but has a Omnikey\*\*\*\***
- Use an Omnikey to Encode
- Use a Sigma/Lite to capture fingerprints

Change Morpho Finger Biometric enrollment > Selected MorphoAccess and Search for your device that you want to use to capture fingerprints

Change Morpho Smartcard Encoding > Selected PC/SC Smartcard reader > Morpho Smartcard encoding PC/SC to the Omnikey to encode cards

Enrollment Devices

Morpho 3D Face enrollment:	None	
Morpho 3D Face enrollment biometric device:		Search
Morpho Finger biometric enrollment:	Selected MorphoAccess	
Morpho Finger enrollment MorphoAccess:	Sigma Multi	Search
Morpho Smartcard encoding:	Selected PC/SC Smartcard reader	
Morpho Smartcard encoding PC/SC device:	CardMan 5x21-CL OKCM00316121	
Morpho Smartcard encoding MorphoAccess:		Search
Key Policy:	Default	

Click Finish

- **\*\*\*No MSO and no Omnikey\*\*\***
- Use a Sigma/Lite to capture fingerprints
- Use a Sigma/Lite to Encode

Change Morpho Finger Biometric enrollment > Selected MorphoAccess and Search for your device that you want to use to capture fingerprints

Change Morpho Smartcard Encoding > Selected MorphoAccess and Search for your device that you want to use to encode cards

The screenshot shows the 'Enrollment Devices' configuration page. It contains several rows of settings, each with a dropdown menu and a 'Search' button. A yellow arrow points from the left text box to the 'Morpho Finger biometric enrollment' dropdown, which is currently set to 'Selected MorphoAccess'. Another yellow arrow points from the right text box to the 'Morpho Smartcard encoding' dropdown, which is also set to 'Selected MorphoAccess'. The 'Search' buttons for these two dropdowns are highlighted with yellow boxes. Other settings include 'Morpho 3D Face enrollment' (None), 'Morpho 3D Face enrollment biometric dev' (empty), 'Morpho Finger enrollment MorphoAccess' (Sigma Multi), 'Morpho Smartcard encoding PC/SC device' (empty), 'Morpho Smartcard encoding MorphoAccess' (Sigma Multi), and 'Key Policy' (Default).

Morpho 3D Face enrollment:	None	
Morpho 3D Face enrollment biometric dev:		Search
Morpho Finger biometric enrollment:	Selected MorphoAccess	
Morpho Finger enrollment MorphoAccess:	Sigma Multi	Search
Morpho Smartcard encoding:	Selected MorphoAccess	
Morpho Smartcard encoding PC/SC device:		
Morpho Smartcard encoding MorphoAccess:	Sigma Multi	Search
Key Policy:	Default	

Click Finish

- **\*\*\*Has an MSO and no Omnikey\*\*\***

- **Use a Sigma/Lite to Encode**

Change Morpho Smartcard Encoding>Selected MorphoAccess and Search for your device that you want to use to encode cards

**Enrollment Devices**

Morpho 3D Face enrollment:	None	
Morpho 3D Face enrollment biometric device:		Search
Morpho Finger biometric enrollment:	Any MorphoSmart	
Morpho Finger enrollment MorphoAccess:		Search
Morpho Smartcard encoding:	Selected MorphoAccess	
Morpho Smartcard encoding PC/SC device:		
Morpho Smartcard encoding MorphoAccess:	Sigma Multi	Search
Key Policy:	Default	

Click Finish

- *Website*

- Please visit our website, [Service.morphotrak.com](http://Service.morphotrak.com) for software, firmware, videos and PDF's.