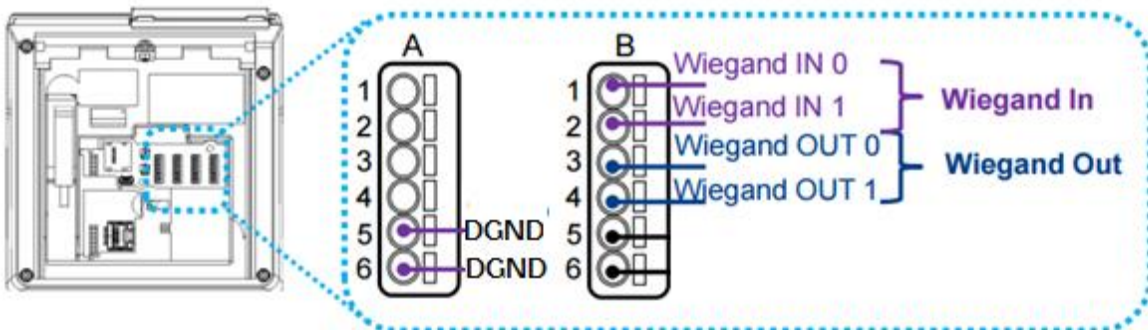


## Instructions on how to connect and configure a External HID prox reader to a Sigma or Similar wiring with a Sigma Lite +

### Wiring



- Take Green wire of HID to Bus B postion 1 Wiegand IN 0
- Take white wire of HID to Bus B postion 2 Wiegand IN 1
- HID reader RED is postive +
- HID reader BLACK is negative -
- \*\*\*Take the Black or negative of the HID reader to Sigma DGND on Bus A postion 5 or 6 (not Power Grn)
- **Do not share power between HID reader and Sigma!**



## What you need

- Morpho Tool Box 3.0 X

There are two methods to Set up a Sigma Using the Morpho Tool box which you can get from here

<http://service.morphotrak.com/software-links.html>

**Morpho Tool Box 3.0.0**  
use with Sigma and Morpho Products  
Morpho Tool box 3.0.0 (new)

## In the Tool box

- Access the reader : put in the IP address and connect

The screenshot shows the configuration interface for the Morpho Tool Box 3.0.0. At the top, the 'Terminal Type' is set to 'MA Sigma'. Below this, the 'Connection information' section is active, showing 'TCP / IP' selected over 'Serial'. Under 'Address type', 'IP4' is selected over 'IP6'. The 'Address' field contains '10 . 10 . 10 . 10', the 'Port' is '11010', and the 'Timeout' is '30' seconds. There are also fields for 'Terminal CA certificate path', 'Client certificate path', and 'Client certificate password', each with a 'Browse' button. A 'Sr. No' field is also present.

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- Go to> Quick Configuration> Controller Quick Configuration> User Control Configuration



## Card plus Finger

- External Port Trigger>Check
- Per user Rule>Trigger event

The screenshot shows the 'UCC Settings' window with two tabs: 'User Control Configuration' and 'Controller Feedback'. The 'UCC Settings' panel has 'Read' and 'Write' buttons. Below these are various configuration options:

Setting	Value
Finger biometric trigger	<input type="checkbox"/>
Contactless card trigger	<input type="checkbox"/>
Keyboard trigger	<input type="checkbox"/>
External port trigger	<input checked="" type="checkbox"/>
Allow record fallback	<input type="checkbox"/>
Allow VIP authentication bypass	<input type="checkbox"/>
Finger bio authentication rule	<input type="checkbox"/>
Pin authentication rule	<input type="checkbox"/>
Check userid authorized list	<input type="checkbox"/>
Enable external database	<input type="checkbox"/>
Check access schedule	<input type="checkbox"/>
Check holiday schedule	<input type="checkbox"/>
Check stolen card list	<input type="checkbox"/>
Check expiry date	<input type="checkbox"/>
Check additional users	0
Allow duress finger	Alarm only
User record reference	Trigger event
Per user rule	Trigger event
Allow biopin user rule	Disabled

## Card OR Finger

- Finger Biometric Trigger>Check
- External Port Trigger>Check
- Per User rule >Disabled

The screenshot displays the 'User Control Configuration' window, specifically the 'UCC Settings' tab. At the top, there are 'Read' and 'Write' buttons. Below these are several configuration items:

Setting	Value
Finger biometric trigger	<input checked="" type="checkbox"/>
Contactless card trigger	<input type="checkbox"/>
Keyboard trigger	<input type="checkbox"/>
External port trigger	<input checked="" type="checkbox"/>
Allow record fallback	<input type="checkbox"/>
Allow VIP authentication bypass	<input type="checkbox"/>
Finger bio authentication rule	<input type="checkbox"/>
Pin authentication rule	<input type="checkbox"/>
Check userid authorized list	<input type="checkbox"/>
Enable external database	<input type="checkbox"/>
Check access schedule	<input type="checkbox"/>
Check holiday schedule	<input type="checkbox"/>
Check stolen card list	<input type="checkbox"/>
Check expiry date	<input type="checkbox"/>
Check additional users	0
Allow duress finger	Alarm only
User record reference	Trigger event
Per user rule	Disabled

## For Finger, OR Card and Finger, OR Keypad and Finger access

- Finger Biometric Trigger>Check
- Keyboard Trigger>Check
- External Port Trigger>Check
- Per User rule >Disabled

The screenshot displays the 'UCC Settings' configuration window. At the top, there are two tabs: 'User Control Configuration' (selected) and 'Controller Feedback'. Below the tabs are 'Read' and 'Write' buttons. The main area contains a list of settings, each with a checkbox or a dropdown menu. The following table summarizes the visible settings and their values:

Setting	Value
Finger biometric trigger	<input checked="" type="checkbox"/>
Contactless card trigger	<input type="checkbox"/>
Keyboard trigger	<input checked="" type="checkbox"/>
External port trigger	<input checked="" type="checkbox"/>
Allow record fallback	<input type="checkbox"/>
Allow VIP authentication bypass	<input type="checkbox"/>
Finger bio authentication rule	<input checked="" type="checkbox"/>
Pin authentication rule	<input type="checkbox"/>
Check userid authorized list	<input type="checkbox"/>
Enable external database	<input type="checkbox"/>
Check access schedule	<input type="checkbox"/>
Check holiday schedule	<input type="checkbox"/>
Check stolen card list	<input type="checkbox"/>
Check expiry date	<input type="checkbox"/>
Check additional users	0
Allow duress finger	Alarm only
User record reference	Trigger event
Per user rule	Disabled
Allow biopin user rule	Disabled



## For Card AND Finger or Keypad AND Finger

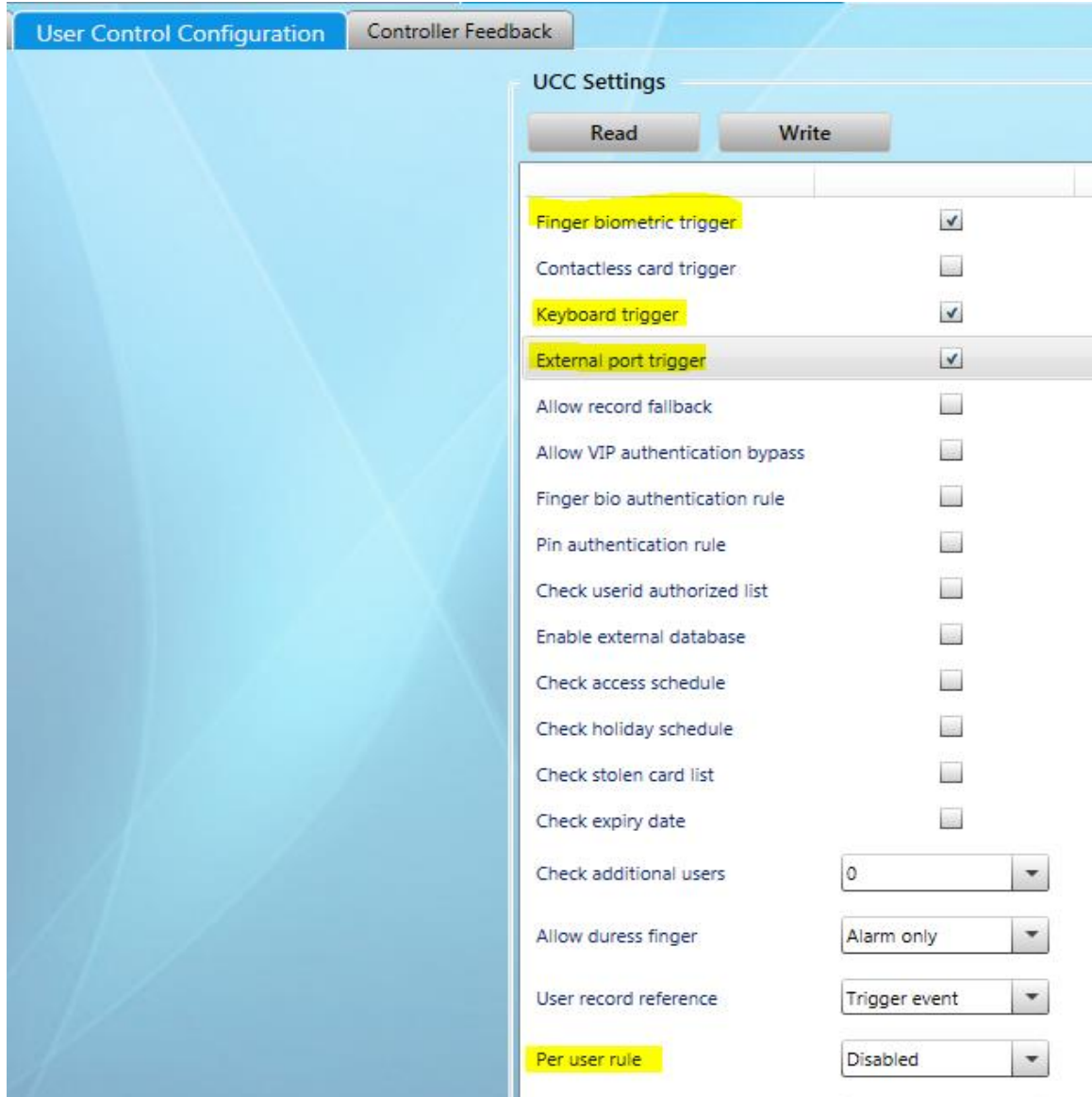
- Keyboard Trigger>Check
- External Port Trigger>Check
- Per User rule >Terminal

The screenshot displays the 'User Control Configuration' (UCC) Settings window. The window has two tabs: 'User Control Configuration' (active) and 'Controller Feedback'. Below the tabs are 'Read' and 'Write' buttons. The main area contains a list of settings, each with a checkbox or a dropdown menu. The 'Keyboard trigger' and 'External port trigger' settings are checked. The 'Per user rule' dropdown is set to 'Terminal'. The 'Check additional users' dropdown is set to '0'. The 'Allow duress finger' dropdown is set to 'Alarm only'. The 'User record reference' dropdown is set to 'Trigger event'.

Setting	Value
Finger biometric trigger	<input type="checkbox"/>
Contactless card trigger	<input type="checkbox"/>
Keyboard trigger	<input checked="" type="checkbox"/>
External port trigger	<input checked="" type="checkbox"/>
Allow record fallback	<input type="checkbox"/>
Allow VIP authentication bypass	<input type="checkbox"/>
Finger bio authentication rule	<input type="checkbox"/>
Pin authentication rule	<input type="checkbox"/>
Check userid authorized list	<input type="checkbox"/>
Enable external database	<input type="checkbox"/>
Check access schedule	<input type="checkbox"/>
Check holiday schedule	<input type="checkbox"/>
Check stolen card list	<input type="checkbox"/>
Check expiry date	<input type="checkbox"/>
Check additional users	0
Allow duress finger	Alarm only
User record reference	Trigger event
Per user rule	Terminal

## Card only OR Finger only OR Keypad only

- Finger Biometric Trigger>Check
- Keyboard Trigger>Check
- External Port Trigger>Check
- Per User rule >Disabled





## Card only

- Contactless Card Trigger>Check
- External Port Trigger>Check
- Per User rule >Disabled

The screenshot displays the 'User Control Configuration' (UCC) Settings window. At the top, there are two tabs: 'User Control Configuration' (selected) and 'Controller Feedback'. Below the tabs are 'Read' and 'Write' buttons. The main area contains a list of settings, each with a checkbox or a dropdown menu. The following table summarizes the visible settings:

Setting Name	Value / Status
Finger biometric trigger	<input type="checkbox"/>
Contactless card trigger	<input checked="" type="checkbox"/>
Keyboard trigger	<input type="checkbox"/>
External port trigger	<input checked="" type="checkbox"/>
Allow record fallback	<input type="checkbox"/>
Allow VIP authentication bypass	<input type="checkbox"/>
Finger bio authentication rule	<input type="checkbox"/>
Pin authentication rule	<input type="checkbox"/>
Check userid authorized list	<input type="checkbox"/>
Enable external database	<input type="checkbox"/>
Check access schedule	<input type="checkbox"/>
Check holiday schedule	<input type="checkbox"/>
Check stolen card list	<input type="checkbox"/>
Check expiry date	<input type="checkbox"/>
Check additional users	0
Allow duress finger	Alarm only
User record reference	Trigger event
Per user rule	Disabled

## Alternative method in Morpho Tool Box

- Using the Keys you can make the same changes



### Three Keys are needed.

- Ucc.Trigger\_event
- Ucc.per\_user\_rules
- Ucc.finger\_bio\_auth\_rule

#### Card only

- Ucc.Trigger\_event>10
- Ucc.per\_user\_rules>0

#### Card or Finger

- Ucc.Trigger\_event>9
- Ucc.per\_user\_rules>0

#### Card and Finger or Finger only

- Ucc.Trigger\_event>11
- Ucc.per\_user\_rules>0
- Ucc.finger\_bio\_auth\_rule>1

#### Card or Keypad

- Ucc.Trigger\_event>12
- Ucc.per\_user\_rules>0

#### Finger, OR Card and Finger, OR Keypad and Finger access

- Ucc.trigger\_event>13
- Ucc.finger\_bio\_auth\_rule>1
- Ucc.per\_user\_rules>0

#### Card and Finger or Keypad and Finger

- Ucc.Trigger\_event>14
- Ucc.per\_user\_rules>1

#### Card and Finger or Keypad and Finger or Finger only

- Ucc.Trigger\_event>13
- Ucc.finger\_bio\_auth\_rule>1
- Ucc.per\_user\_rules>0

#### Card or Finger or Keypad

- Ucc.Trigger\_event>13
- Ucc.per\_user\_rules>0

#### Card Plus Finger

- Ucc.trigger\_event>2
- Ucc.finger\_bio\_auth\_rule>1
- Ucc.per\_user\_rule>0

## After you have set your configuration in Morpho Tool box

- A: Use an External Configuration Mode in Biometric Device Profile since Morpho Tool box is external to Morpho Manager

The screenshot shows the 'Adding Biometric Device Profile' configuration page in Morpho Manager. On the left is a navigation menu with items: Operator, Key Policy, Biometric Device Profile (highlighted with a black box), Biometric Device, Wiegand Profiles, User Policy, User Distribution Group, User Authentication Mode, and Operator Role. The main content area is titled 'Adding Biometric Device Profile' and contains the following fields:

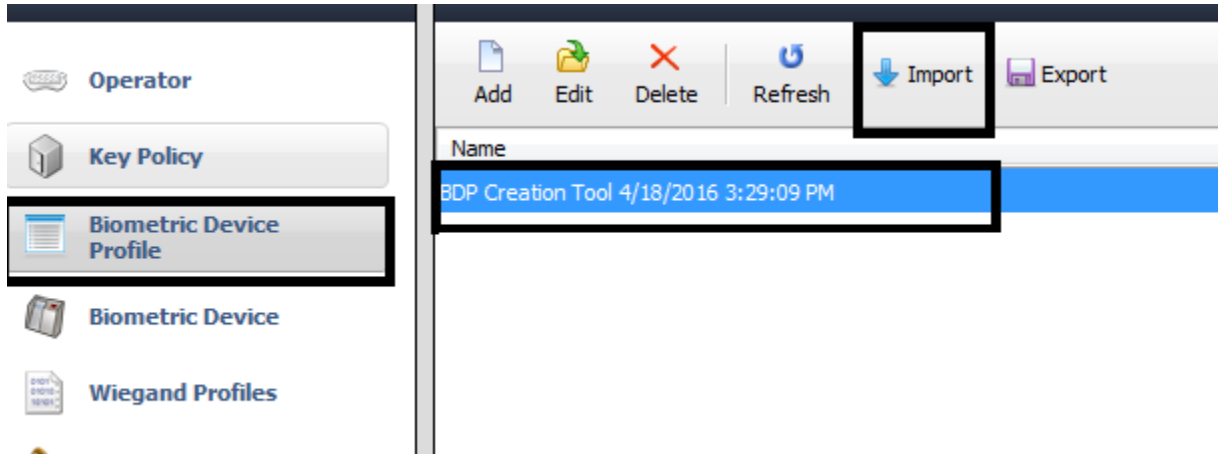
- Name: external set up
- Description: (empty)
- Configuration Mode: External (highlighted with a black box)
- Realtime logging enabled:
- Log retrieval interval: 300 (seconds)
- Display name encoding code page: Western Europe (Default) (ISO-8859-1) (Applicable to MA5)
- Duplicate check on biometrics:  (MA 100, MA J, MA 500, MA VP, MA Sigma, MA Sigma Lite, MA Sigma Lite+, and MorphoWave or Only applicable to new user adds or rebuild)
- MorphoAccess heartbeat interval: 30 (seconds)
- Section: MA Sigma, MA Sigma Lite, MA Sigma Lite+ Only Settings
- Allow Remote Enrollment:
- Default User Policy for Remote Enrollment: blank

- B: Use the Biometric Device Profile Creation tool to obtain all the settings

The screenshot shows the 'Biometric Device Profile Creation Tool' window. The title bar reads 'Biometric Device Profile Creation Tool'. The window content includes the MorphoManager logo, the title 'Biometric Device Profile Creation Tool' (highlighted in yellow), and the following text: 'This tool allows you to create a MorphoManager Biometric Device Profile based off the current settings of a MorphoAccess device. Simply enter the device's IP or hostname, select the appropriate hardware type and click Create.' Below this text are the following input fields:

- IP/Hostname: (empty)
- Port: 11010
- Hardware family: MA Sigma
- Create button

- After its been created you can import to the Biometric Device Profile



Have questions? Contact the call center at 1-888-940-7477