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System Configuration, BioStar 2, Wiegand

How to configure Wiegand Output

With BioStar 2, Wiegand formats can be predefined and assigned to each device for easy configuration. Users can avoid cumbersome settings of applying the same format to multiple number of devices one by one.

1. Go to 'Card Format' in Setting of BioStar 2.
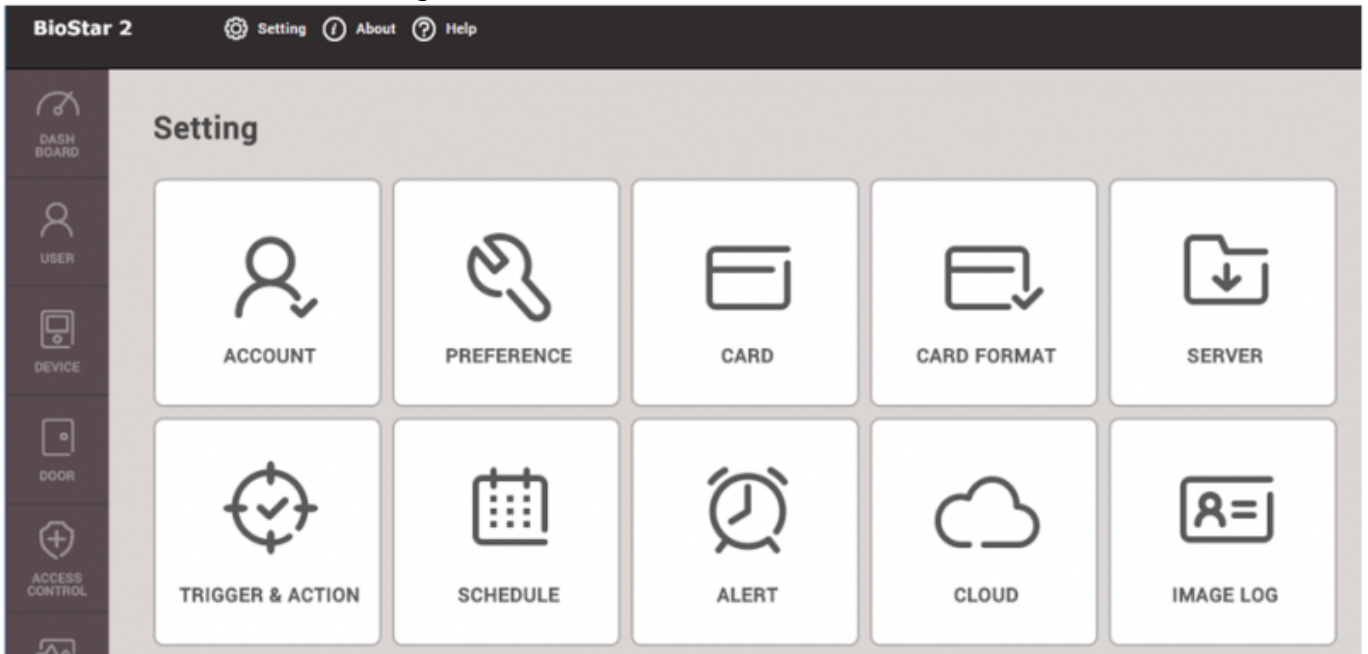
2. Select one of the default Wiegand format options or add a new Wiegand format.
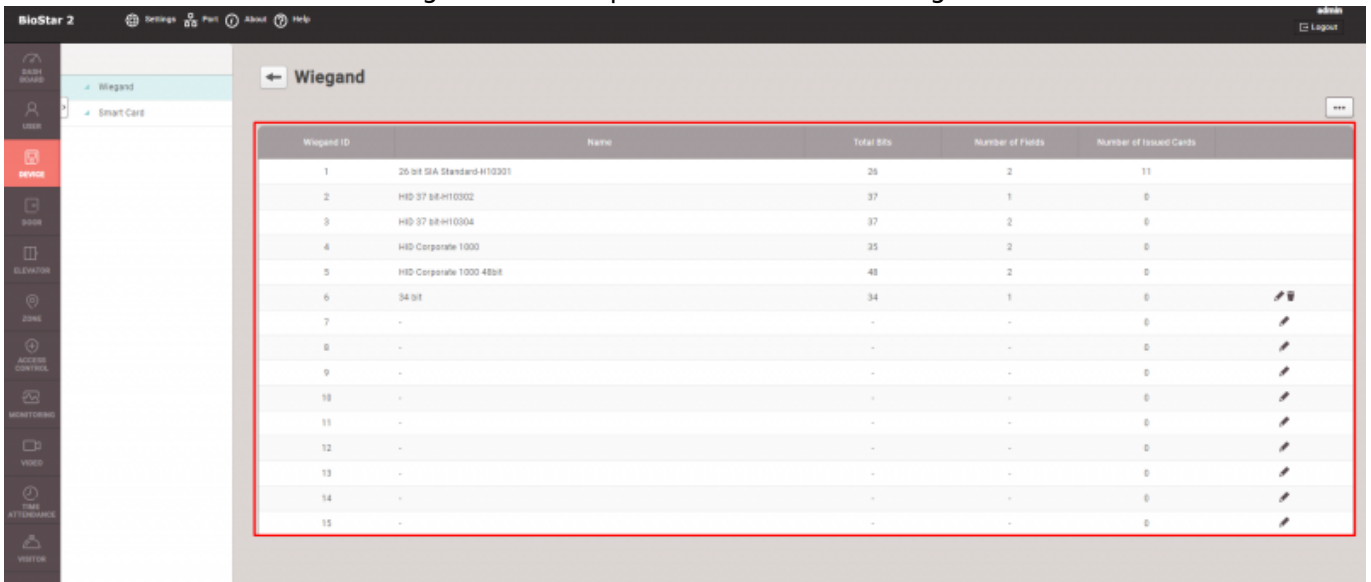
3. Wiegand format can be set by assigning the total bits, ID field, and parity bits. For example, in order to configure 34 bits card format with parity bit checks by half of each even and odd parity check logic, it's necessary to set 'Start Bit' and 'End Bit' for each part.

↵ **34 bits**

Information					
• Name	34 bits				
• Description					
• Total Bits	34				

• ID Field		Start Bit	End Bit	Size	+ Add
	ID0	1	32	32	🗑

• Parity Bits	Position	Type	Start Bit	End Bit	Size	+ Add
	0	Even	0	16	17	🗑
	33	Odd	17	33	17	🗑

4. Go to **Device** and expand 'Advanced' setting tap and scroll down, and set to use **Out** and choose one of predefined format.

Wiegand

• In/Out	Out	• Format	26 bit SIA Standard-H10301
• Pulse Width(μs)	40	• Pulse Interval(μs)	10000
☐ Enable Fail Code		• Fail Code	0x00
• Bypass Mode	Disable		

5. Check **Pulse Width** and **Pulse Interval**, and adjust it if they are not matched to the 3rd party system values.
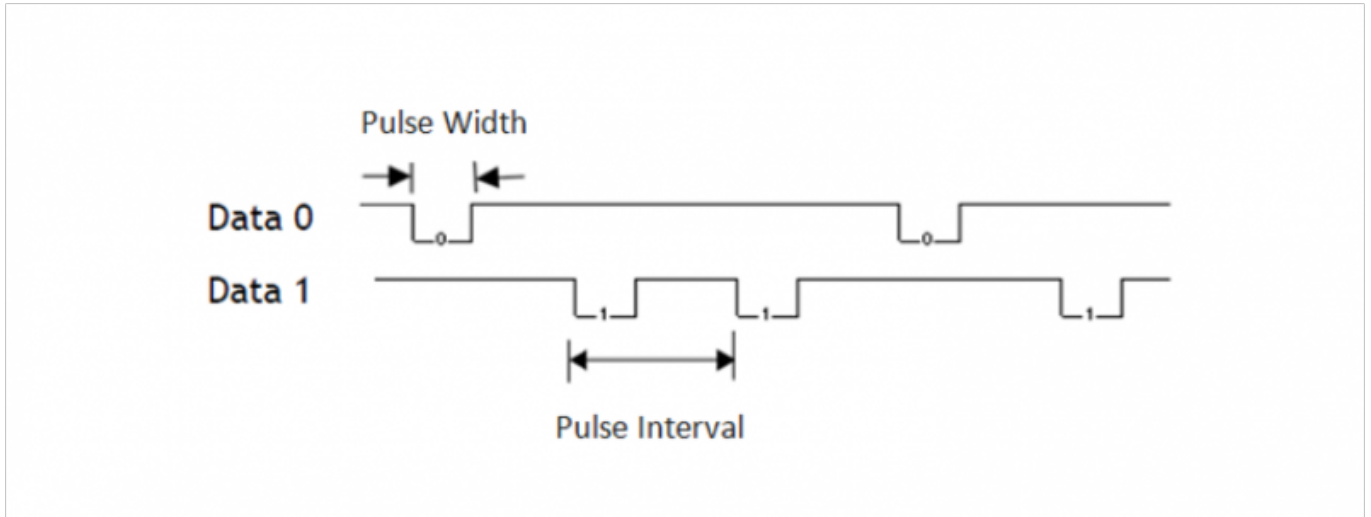
6. Set **Enable Fail Code** or **Bypass Mode** depending on the system usage.

> Enable Fail Code : Set to send out a fail code at auth failure. It enables 3rd party system to be able to detect auth fail events by checking the designated fail code number.
> Bypass Mode: It makes the device send out Card Data to 3rd party device without making an authentication. With this mode, the device works as a dummy device, and card data only can be transmitted through Wiegand.

7. Click **Apply**, and check the wiring between the devices, and swipe a card or put a fingerprint on the sensor.

8. Check 3rd party system monitoring, and input value. If there are no events and responses, check the wiring and pulse and Wiegand format. If there are error message, please try to change the card ID format and reading mode, such as **Byte Order**.

(From Lenel Onguard)

Video Demo

wiegand_out.mp4