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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.

BioStar	2 💮 Setting () Abou	it 🥐 Help			
DASH BOARD	Setting				
	Q, account	PREFERENCE	CARD	CARD FORMAT	SERVER
	TRIGGER & ACTION	SCHEDULE	ALERT	CLOUD	R= IMAGE LOG

### 2. Select one of the default Wiegand format options or add a new Wiegand format.

BioStar	2 @ Settings and Put (	) лани (1) неф					E Lagout
CA BASH BOARD	.a Wiegand	← Wiegand					_
A	A Smart Card						
-		Wiegand ID					
DEVICE		1	26 bit SIA Standard-H10301	26	2	11	
R		2	HID 37 bit-H10302	37	1		
		3	HID 37 bit-H10304	37	2		
T		4	HID Corporate 1000	35	2		
ELEVATOR		5	HID Corporate 1000 48bit	41	2		
0		6	34 bit	34	1	0	18
2016		7				0	/
							/
CONTROL						0	/
-		10				0	1
MONITORING							/
		12					/
which a		13					/
U TMI		14					1
		15	· ·			0	1
VISITOR							

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.

2022/07/22 11:14

✓ 34 bits							
Information							
• Name	34 bits						
- Description							
Total Bits	34 *						
ID Field			Start Bit	End Bit	Size		hdd -
	IDO		1	32	32		
Parity Bits	Position	Туре	Start Bit	End Bit	Size		Add .
	0	Even	0	16	17		
	33	Odd	17	33	17		
• Parity Bits	ID0 Positien 0 23	Type Even Odd	1 Start BH O 17	32 End Bit 16 23	32 Size 17 17	¥ ¥ ¥	

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

- In/Out	Out Out	• Format	26 bit SIA Standard-H10301	v
- Pulse Width(ps)	40 a	<ul> <li>Pulse Interval(µs)</li> </ul>	10000	
Enable Fail Code		• Fail Code	0x00	
Dypass 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**.

📮 Alarm Monitoring - System Account - [Main Alarm Monitor]								
🕸 Eile Edit View Trace Configure Co	ntrol <u>O</u> ptions <u>W</u> indow	<u>H</u> elp						
🔍 🚇 🛕 🏣 - 🌲 🕲 🎇 🗷 - 🗉	x 🗪 🍫 - 喇 🎻	🋴 - 😁 🗟 ( d	6					
Alarm Description	Time/Date	Controller	Device	Input/Output	Card			
Granted Access     Granted Access     Open Door Command Issued - Door Used	오후 4:01 2015-11-20 오후 4:01 2015-11-20 오후 3:58 2015-11-20	Test Panel Test Panel Test Panel	Test Reader Port 1 Test Reader Port 1 Test Reader Port 1	None None None	Lee Tim (7040) Lee Tim (7040)			

(From Lenel Onguard)

# Video Demo

wiegand\_out.mp4

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