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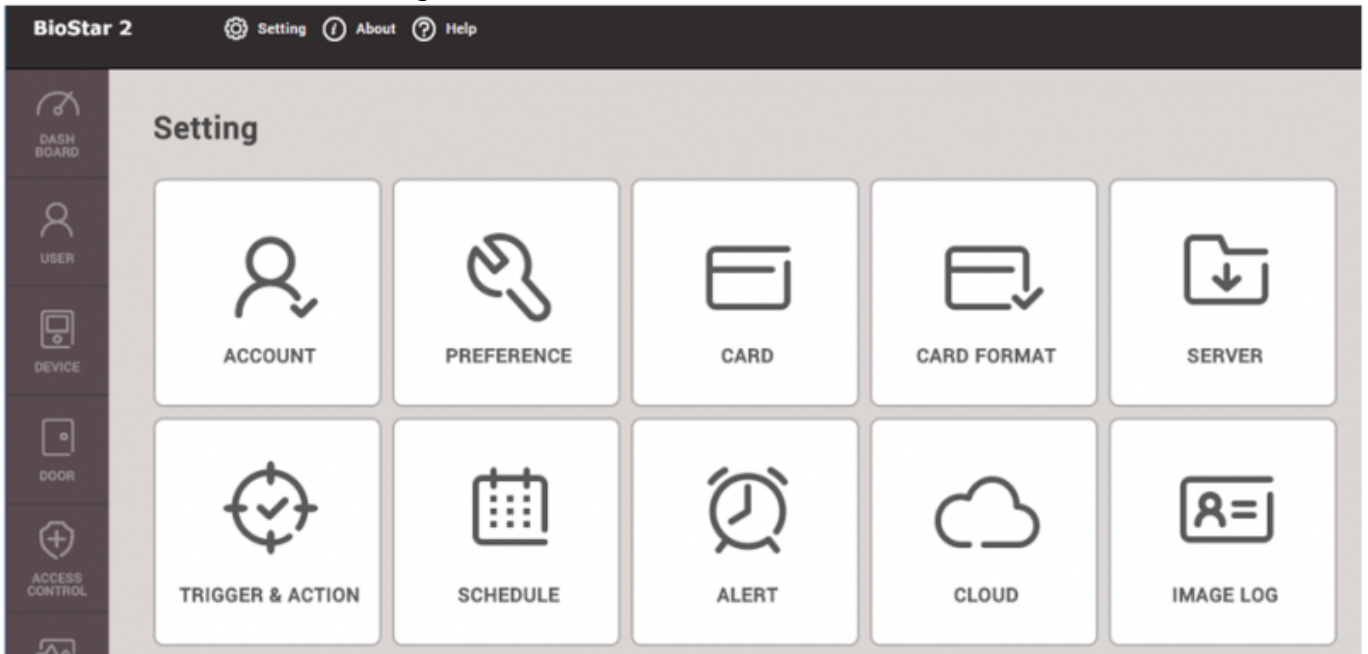
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System Configuration, BioStar 2, Wiegand

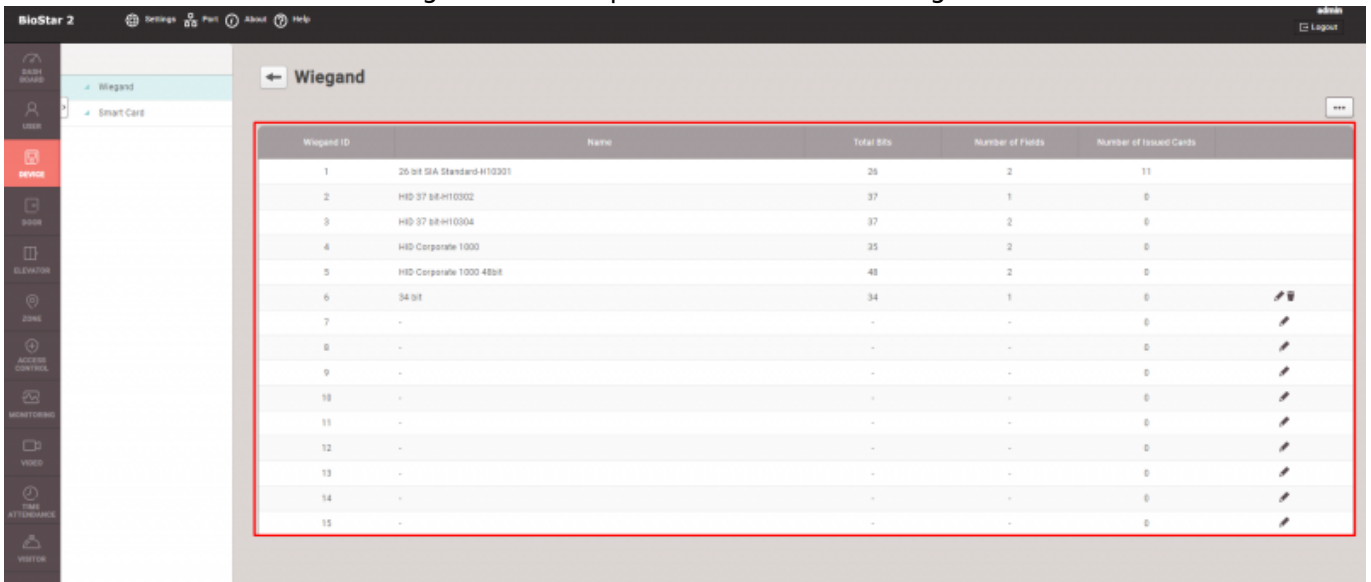
How to configure Wiegand Output

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.

The screenshot shows a configuration interface for a 34-bit Wiegand output. It includes fields for Name, Description, and Total Bits (set to 34). Below these are two tables for ID Field and Parity Bits.

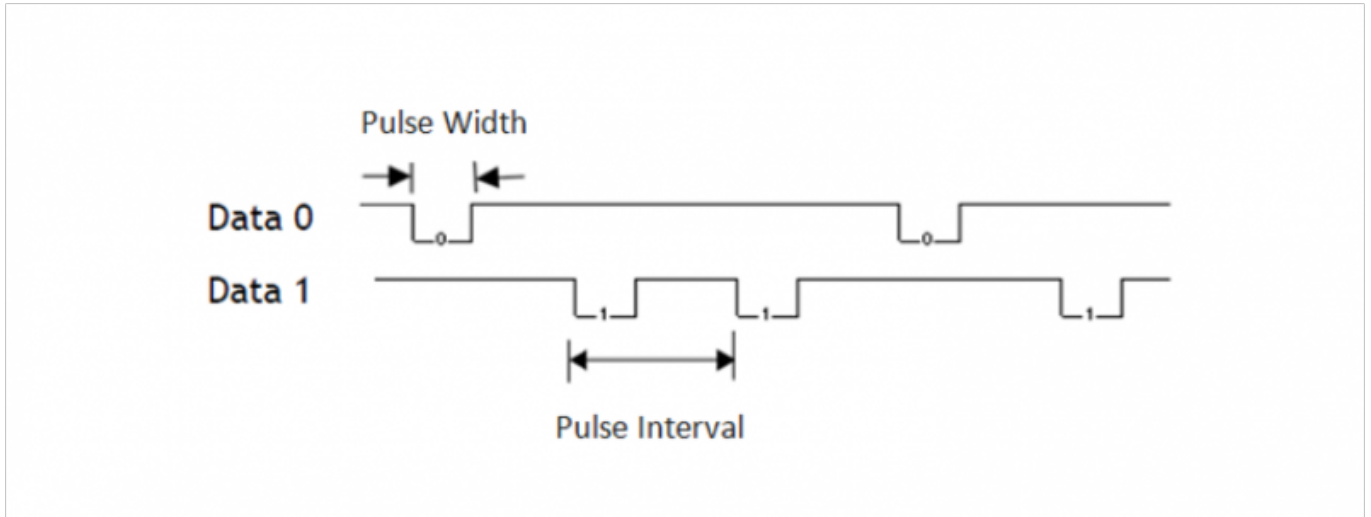
ID Field	Start Bit	End Bit	Size
IDD	1	32	32

Position	Type	Start Bit	End Bit	Size
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.

The screenshot shows the 'Wiegand' configuration page. It has several settings: In/Out (toggle to 'Out'), Pulse Width (40), Enable Fail Code (checkbox), Bypass Mode (toggle to 'Disable'), Format (26 Bit SIA Standard-H10301), Pulse Interval (10000), and Fail Code (0x00).

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 Description	Time/Date	Controller	Device	Input/Output	Card
Granted Access	오후 4:01 2015-11-20	Test Panel	Test Reader Port 1	None	Lee Tim (7040)
Granted Access	오후 4:01 2015-11-20	Test Panel	Test Reader Port 1	None	Lee Tim (7040)
Open Door Command Issued - Door Used	오후 3:58 2015-11-20	Test Panel	Test Reader Port 1	None	

(From Lenel Onguard)

Video Demo

[wiegand_out.mp4](#)

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