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Control **iD**

Control iD iDFace Mifare Facial Access Controller



Product Information

Specifications

- Firmware Version: 6.20.10
- Feature: Wiegand Settings Control
- Device: iDFace

Wiegand Settings

With the release of firmware 6.20.10, Control iD has launched a new feature that allows users to have further control over the Wiegand settings on the iDFace. Now, users can configure the bits format as well as visualize the last information sent/received by a unit.

“Configure bits” Screen

Let us go over the different options and talk about what changes can be made in the Wiegand formats.

Wiegand Settings ✕

Mode

Configure bits

Diagnostics

Automatic

✓

Wiegand size:

37 (H10304)

Facility code

Start:

2

Size:

16

Card number

Start:

18

Size:

19

Even parity

Bit position:

1

Bits to sum:

2,3,4,5,6,7,8,9,10,11,12,13,14,15,1

Odd parity

Bit position:

37

Bits to sum:

19,20,21,22,23,24,25,26,27,28,29,

Parity calculation order

1, 37

Bit visualization

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
15	16	1	2	3	4	5	6	7	8	9	10	11	12	13
31	32	33	34	35	36	37								
14	15	16	17	18	19	37								

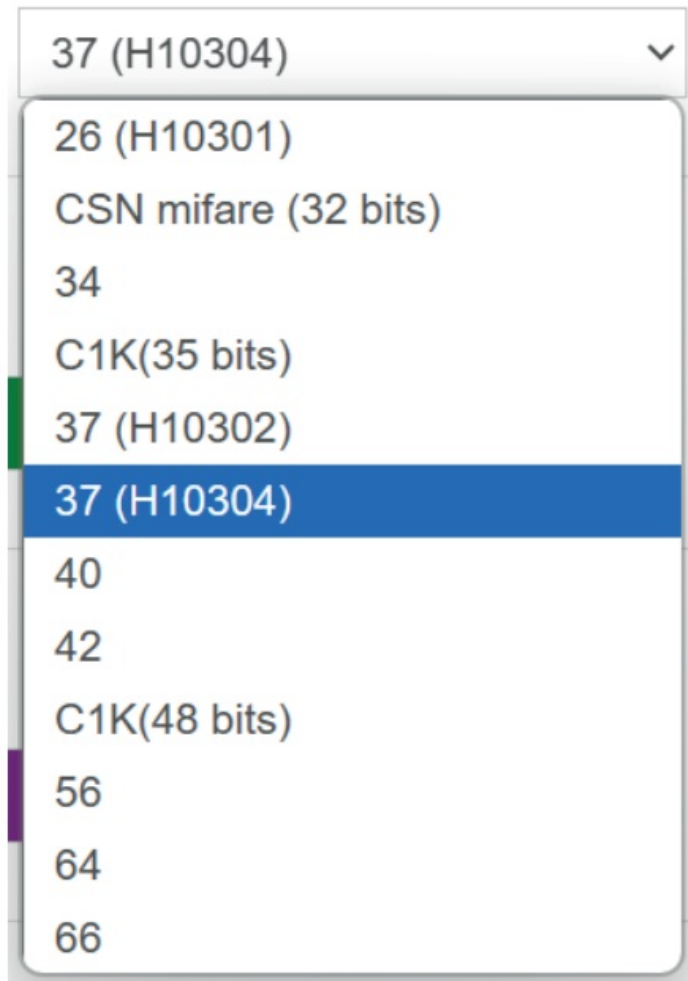
Cancel

Save

Wiegand size:

In the “Automatic” format, iDFace will display a list of pre-configured Wiegand formats, each with its own unique Facility code, Card number and Parity bits formats. After selecting a desired pre-configured format, a breakdown of the bits will be shown according to the bit order, meaning, which bits will be used for the Facility code, which will be for Card number, and how the Parity bits will be calculated.

Wiegand size:



37 (H10304) ▼

26 (H10301)

CSN mifare (32 bits)

34

C1K(35 bits)

37 (H10302)

37 (H10304)

40

42

C1K(48 bits)

56

64

66

Manual formats

After disabling the “Automatic” formats, you will now have the option to configure the Wiegand format to a desired format, granted it follows certain rules:

- Wiegand size: from 26 to 64 bits
- Parity bits: up to 2 Even parity bits and up to 2 Odd parity bits, choosing which bits will be added for each parity bit. And they must always be at the beginning or end of the Wiegand format, never in the middle.
- Facility code must always be in front of the Card number.
- The sum of Parity bits + Facility code + Card number must not be greater than the total Wiegand size.

The image shows a 'Wiegand Settings' dialog box with three tabs: 'Mode', 'Configure bits' (selected), and 'Diagnostics'. The 'Configure bits' tab contains several sections for setting up the Wiegand data format.

- Automatic:** A red 'X' icon is shown next to the 'Automatic' label.
- Wiegand size:** A text box containing the value '26'.
- Facility code:**
 - Start:** A text box with '2' and a green square icon.
 - Size:** A text box with '3' and a green square icon.
 - Invert bit order:** A red 'X' icon.
- Card number:**
 - Start:** A text box with '5' and a purple square icon.
 - Size:** A text box with '21' and a purple square icon.
 - Invert bit order:** A red 'X' icon.
- Even parity bits:** A dropdown menu showing '1'.
- Odd parity bits:** A dropdown menu showing '1'.
- Even parity:**
 - Bit position:** A text box with '1' and a blue square icon.
 - Bits to sum:** A text box with '2,3,4,5,6,7,8,11,12,13,910' and a blue square icon.
- Odd parity:**
 - Bit position:** A text box with '26' and a yellow square icon.
 - Bits to sum:** A text box with '14,15,16,17,18,19,20' and a yellow square icon.
- Parity calculation order:** A dropdown menu showing 'Default' and a button labeled '1,26'.
- Update bits:** A blue button.
- Bit visualization:** A grid of 26 colored squares representing the bit positions. The colors are: 1-11 are blue, 12-21 are purple, and 22-26 are yellow.

At the bottom right of the dialog box are 'Cancel' and 'Save' buttons.

Parity bits calculation

The Even parity bit is calculated by adding the number of bits with value “1” in the configured range. If the sum value is even, the Even parity value will be 0, otherwise the value will be 1.

The Odd parity bit is calculated by adding the number of bits with value “1” in the configured range. If the sum value is odd, the Odd parity value will be 0, otherwise the value will be 1.

“Diagnostics” Screen

The “Diagnostics” screen is an easy way to check how the device is interpreting and formatting the data that is receiving/sending.

After a card reading is received over the Wiegand-IN signals at EAM, iDface will show a detailed description of what bits were read (e.g. what Facility code, Card number and Parity bits were interpreted). It has a similar structure as the “Bit visualization” on the “Configure bits” screen.

Wiegand Settings

Mode
Configure bits
Diagnostics

Last card read

Total bits read:

37

Number of bits expected:

37

Facility code read:

235

Card number read:

249109

Day and time of last read:

08/05/25 ~ 14:52:35

Parities:

Check

Bits read:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	0	0	0	0	0	0	0	0	1	1	1	0	1	0
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	1	0	1	1	1	1	0	0	1	1	0	1	0	0
31	32	33	34	35	36	37								
0	1	0	1	0	1	1								

Cancel
Save

Important

This Wiegand settings will apply to both inbound and outbound information from the iDFace. Meaning that Wiegand IN and Wiegand OUT will behave equally and format the information it receives/sends into the previously configured Wiegand format.

FAQ

Can I customize my own Wiegand format on the iDFace?

Yes, you can manually configure Wiegand formats on the iDFace to suit your specific requirements.

How does the device calculate Parity bits?

The device calculates Even parity by counting the number of bits with a value of 1 in the configured range and assigning a parity value of 0 for an even total or 1 for an odd total. Odd parity is similarly calculated based on the count of bits with a value of

1.

Documents / Resources

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Wiegand Settings

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iDFace Mifare Facial Access Controller, iDFace, Mifare Facial Access Controller, Facial Access Controller, Access Controller, Controller

References

- [User Manual](#)

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Access Controller, Control iD, controller, Facial Access Controller, iDFace, iDFace Mifare Facial Access Controller, Mifare Facial Access Controller

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