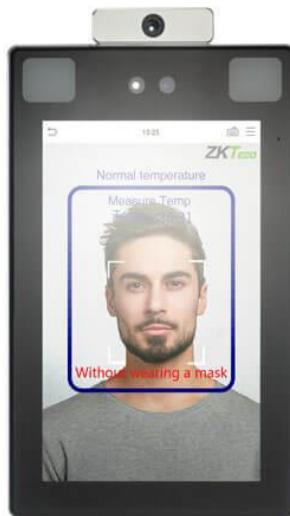


SUPPORT INFORMATION

Access



ZK Teco Facial, Palm and Temperature Recognition - Reader Connection.

This document summarises how to connect a ZK Teco Profacex[TD] or Speedface-V5 [TD] reader to ACT Enterprise, ACT 365 and SiPass Integrated.

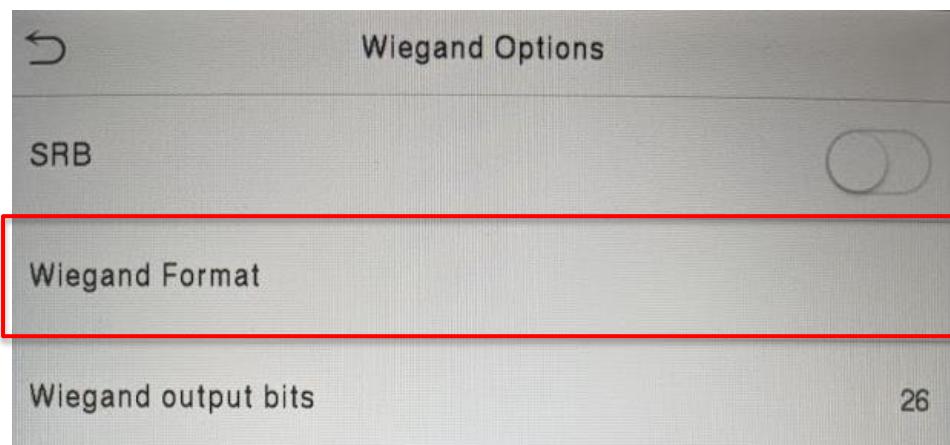
Notes

- This is a Wiegand reader connection, so ensure your license has capacity for Wiegand readers (SiPass).
- Facial profiles and users must be taught in to the ZK Teco unit and the user number from the access system used as the unique User ID.
- The instructions included in this guide were written around and tested with, the Profacex-[TD] unit, although the same procedure should apply for the Speedface-V5 [TD]

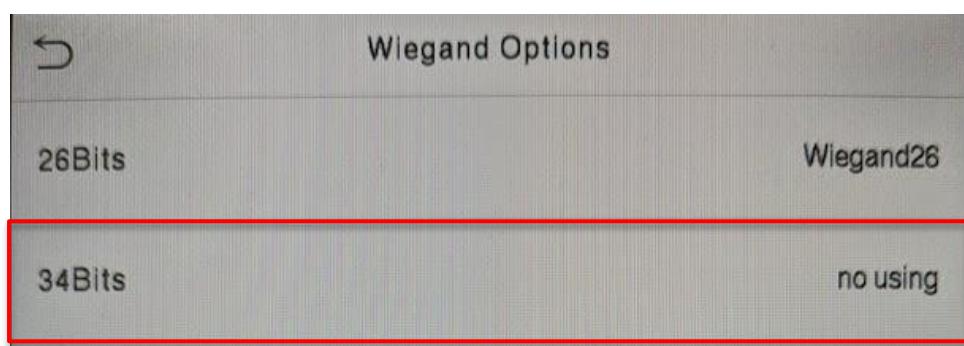
SUPPORT INFORMATION

1. Enable correct Wiegand Protocol in Reader

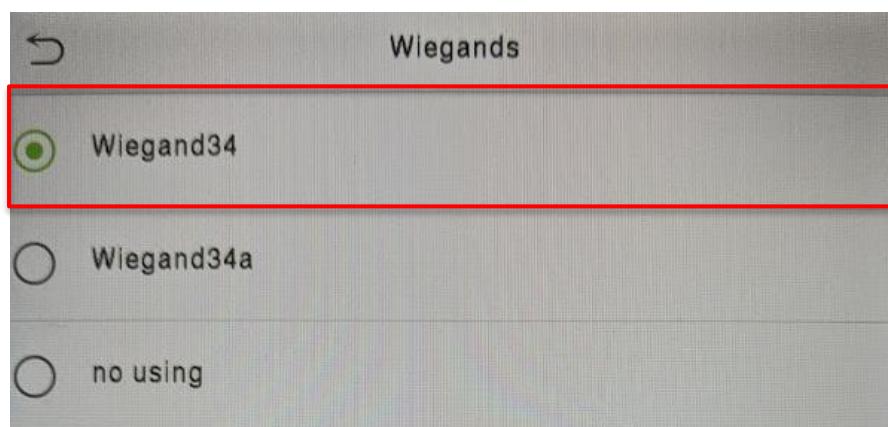
On the reader menu navigate to Comm>Wiegand Setup>Wiegand Output>Wiegand Format:



Tap on the 34 Bits format as shown below:

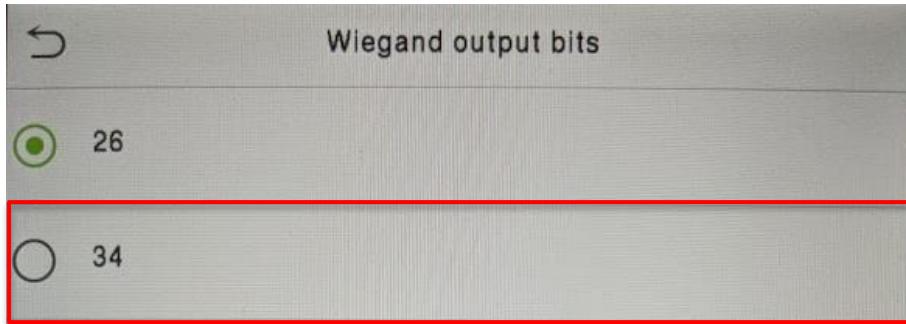


Select the "Wiegand 34" format as shown below:

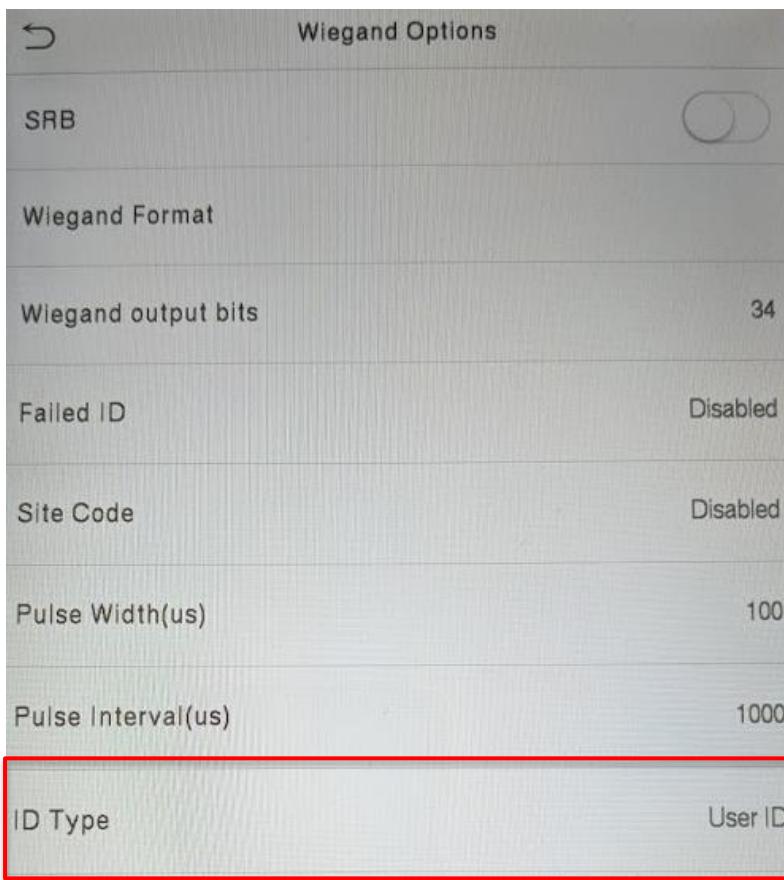


SUPPORT INFORMATION

Now, under the Wiegand Output Bits menu, you should be able to select “34”:



The final change that needs to be done is to change the output so that we’re sending the unique “User ID” to the connected host system, this change is made under the “ID Type” selection:



The device is now configured to output the unique user number via the Wiegand 34 bit protocol.

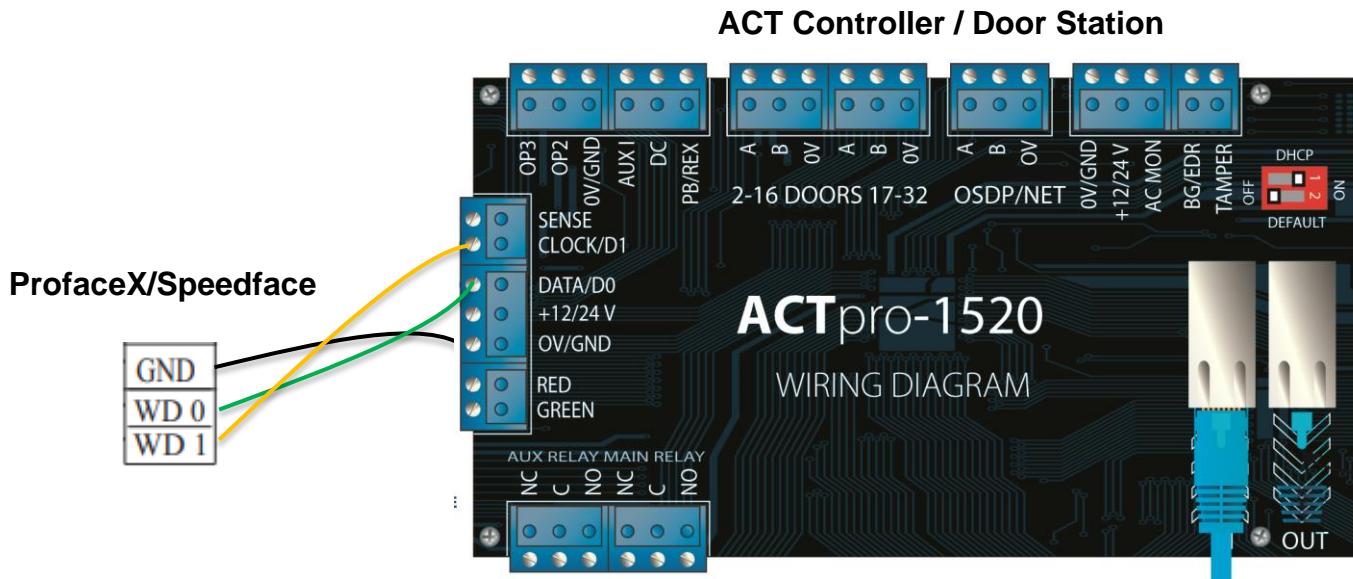
SUPPORT INFORMATION

2. Connection to ACT Enterprise

The connections required between reader and controller are as simple as Wiegand data lines, and a 0v reference.

Due to the heavier than normal power requirements of the reader, a dedicated power supply should be used – Please consult the reader installation guide to ensure you have a suitable supply or use the provided PSU.

If you wish to be able to manage this reader remotely via ZKBio Security, then an IP connection will also be required.



Biometric Reader	ACT Controller
Wiegand D0	Data/D0
Wiegand D1	Clock/D1
0v	0v

SUPPORT INFORMATION

Defining the Wiegand Format – ACT Enterprise

For the Wiegand format to be interpreted correctly, a custom card format must be defined in ACT Enterprise. The format is as defined below.

ACT Install>Advanced Setup>Card Configuration>Format

Wiegand Format

Name:	Start	Length
ZK Teco Custom Format		
Overall:		34
Site Code:	0	0
Card Number:	2	32
Issue Number:	0	0

Use this format

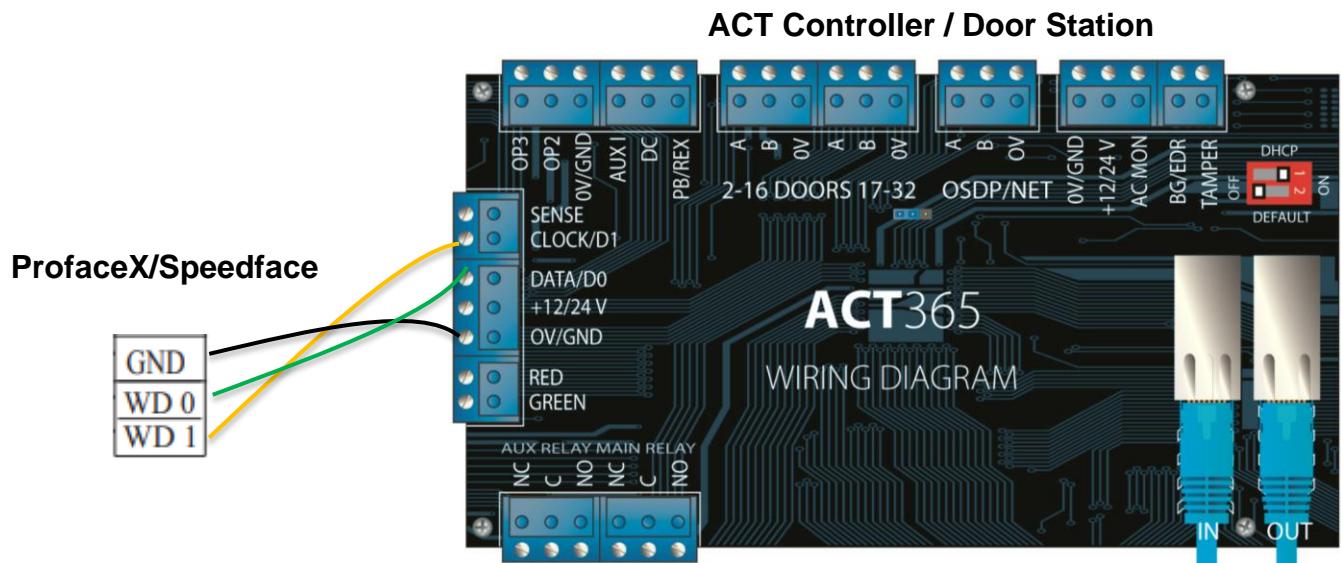
Check built-in formats

No Reverse Reverse Bits Reverse Bytes

SUPPORT INFORMATION

3. Connection to ACT 365

The device connects to an ACT365-ACU as shown below.



Biometric Reader	ACT Controller
Wiegand D0	Data/D0
Wiegand D1	Clock/D1
0v	0v

SUPPORT INFORMATION

Defining the Wiegand Format – ACT365

In the **Customer Portal** navigate to **Settings>Card Formats**.

In here you will see all currently defined card formats. You will need to click on **+ New Card Format** to add a new one.

Card Format List										
Actions		Card Format List								
	Name	Format Type	Total no. of Bits	Card Number Length	User Editable	Site Code	Is Active	Settings		
<input type="checkbox"/>	ZK Teco Format	Wiegand	34	32	✓	0	✓			
<input type="checkbox"/>	HID 26-bit Wiegand	Wiegand	26	16	✗	0	✗			
<input type="checkbox"/>	Vanderbilt 34-bit Wiegand	Wiegand	34	20	✗	0	✗			
<input type="checkbox"/>	HID 34-bit Wiegand	Wiegand	34	16	✗	0	✗			
<input type="checkbox"/>	HID 35-bit Wiegand	Wiegand	35	16	✗	0	✗			
<input type="checkbox"/>	HID 37-bit Wiegand	Wiegand	37	19	✗	0	✗			

The Card format to be used should be as follows:

Card Format

Card Format Details

Name	ZK Teco Format
Format Type	Wiegand
Start from End	<input type="checkbox"/>
Total no. of Bits	34
Card Number Length	2-33

Site Code

Use Site Code?

Parity Settings A

Select Bits

Parity Settings B

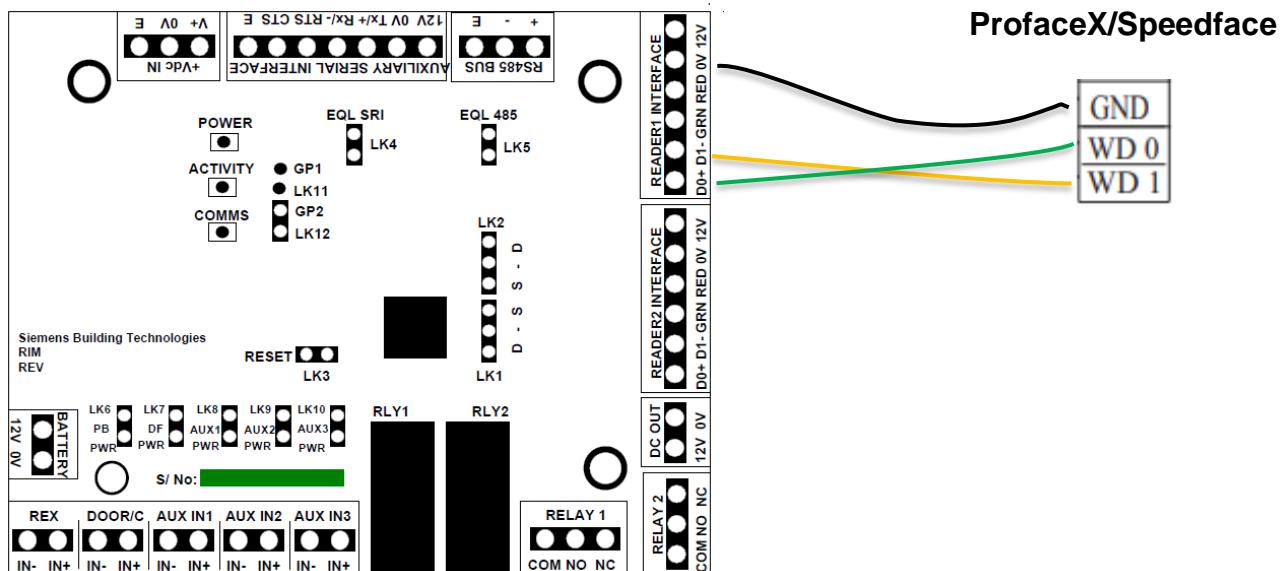
Select Bits

Total number of bits = 34
Card number = 2->33
No Parity bits defined

SUPPORT INFORMATION

4. Connection to SiPass Integrated - DRI

The device connects to an ACU as shown below.



Biometric Reader ADD5100	
Wiegand D0	D0
Wiegand D1	D1
0v	0v

SUPPORT INFORMATION

Configuring custom Wiegand protocol in SiPass

For the Wiegand format to be interpreted correctly by SiPass Integrated, a custom card format must be defined

SiPass Integrated Configuration Client>System>FLN Configuration>Custom Card Format>Add

The card format should be defined as follows:

Custom Card Configuration

Definition

Field	Length	Bit Range
Name:	34-Bit Wiegand™	
Total Length:	34	1-34
Number:	32	1-2 (MSB) 33-34 (LSB)
Facility:	34	1-2 (MSB) 3-8 (LSB)
Facility Additional:	34	1 (MSB)
Revision:	34	1 (MSB)
Even Parity:	34	1-13 (MSB) 14 (LSB)
Odd Parity:	27	1-14 (MSB) 15-27 (LSB)

Decoding

Bits:			
Total Length:	Failed (Length = 128)	Number:	0
Even Parity:	Ok	Facility:	0
Odd Parity:	Ok	Revision:	0

Ok Cancel Apply

Total Length: 34

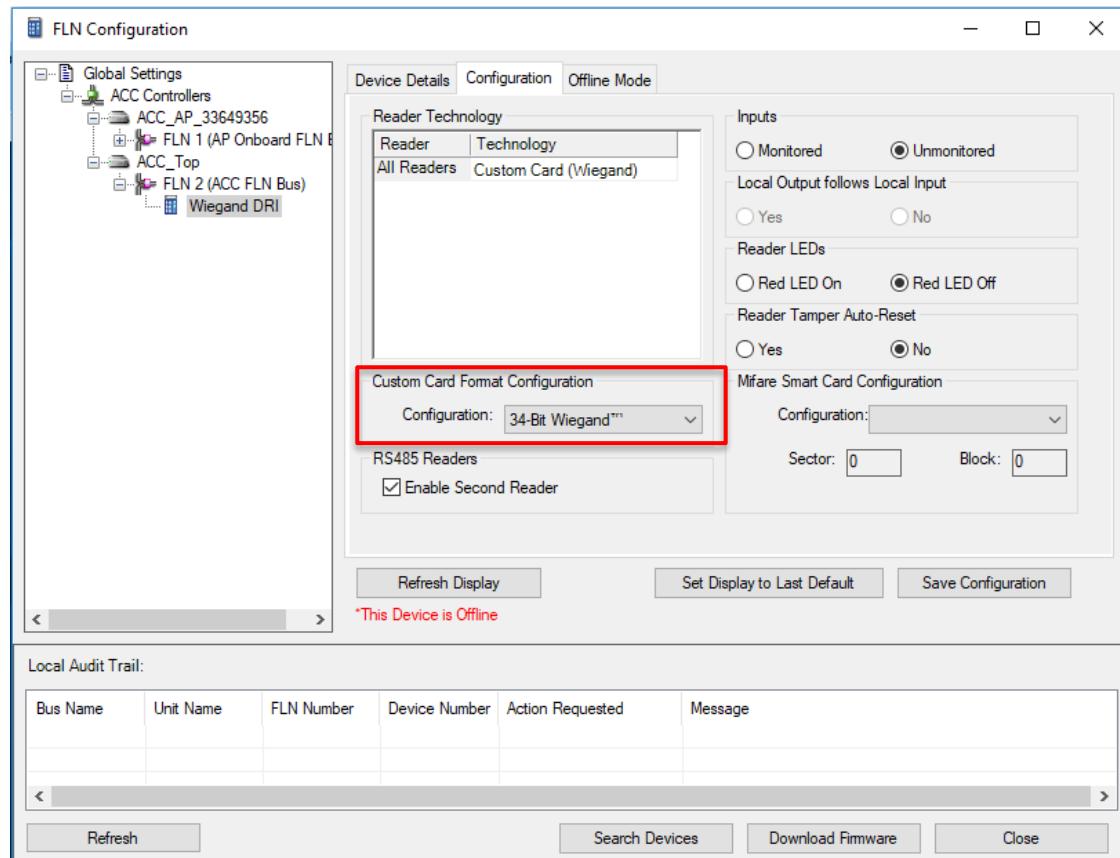
Number: 2-33

No Parity Calculation

SUPPORT INFORMATION

SiPass Integrated Configuration Client>System>FLN Configuration>*ACC*>*FLN*>*RIM*>Configuration

With the card format created, it now needs to be assigned to the relevant doors - Make sure to apply this format to any RIM where the devices are connected.



SUPPORT INFORMATION

If you have any questions, please contact our Technical Competence Centre.

Contact details can be found on our website.

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