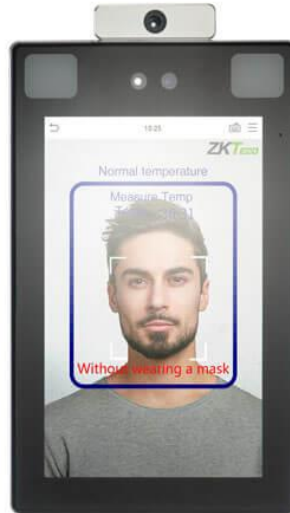


# SUPPORT INFORMATION

Access



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

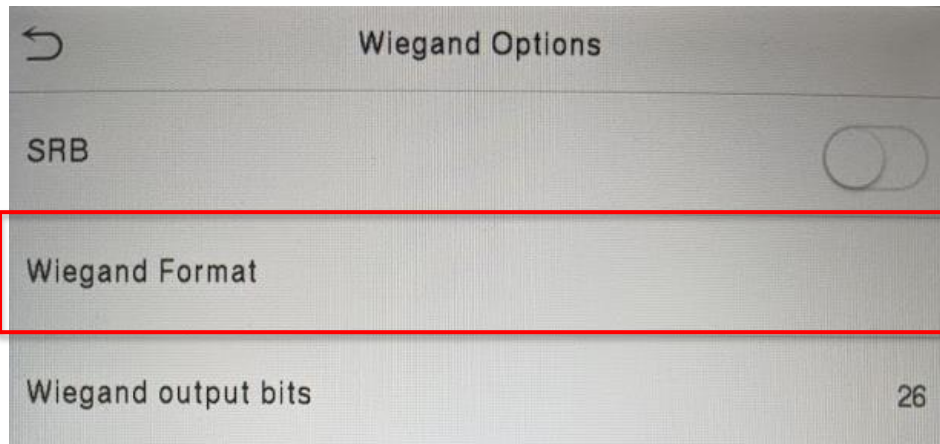
This document summarises how to connect a ZK Teco ProfaceX[TD] or Speedface-V5 [TD] reader to ACT Enterprise, ACT 365 and SiPass Integrated.

### Notes

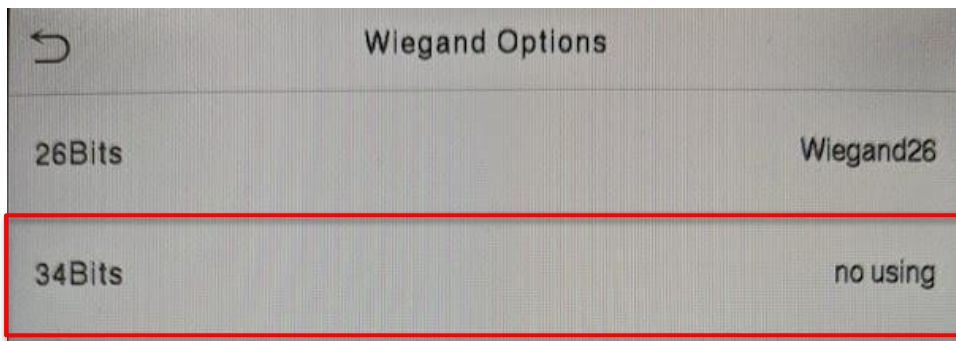
- This is a Wiegand reader connection, so ensure your license has capacity for Wiegand readers (SiPass).
- Facial profiles and users must be taught in to the ZK Teco unit and the user number from the access system used as the unique User ID.
- The instructions included in this guide were written around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

## 1. Enable correct Wiegand Protocol in Reader

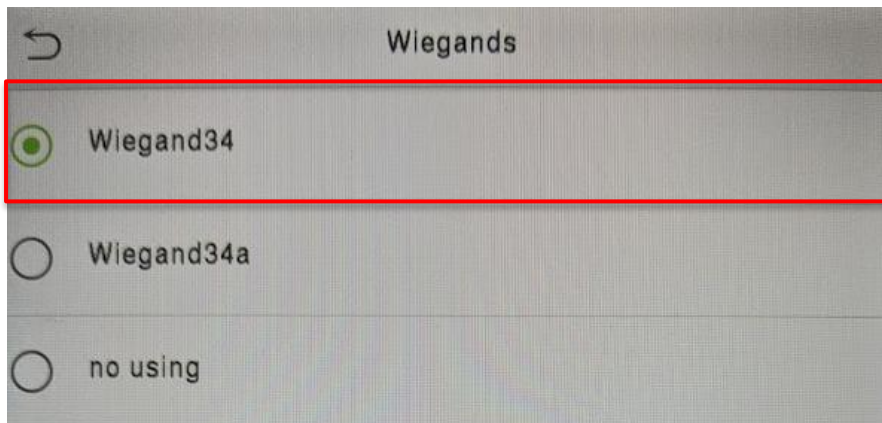
On the reader menu navigate to Comm>Wiegand Setup>Wiegand Output>Wiegand Format:



Tap on the 34 Bits format as shown below:

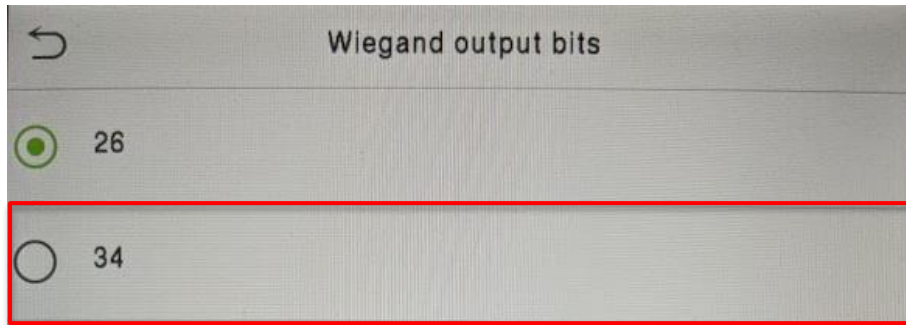


Select the "Wiegand 34" format as shown below:

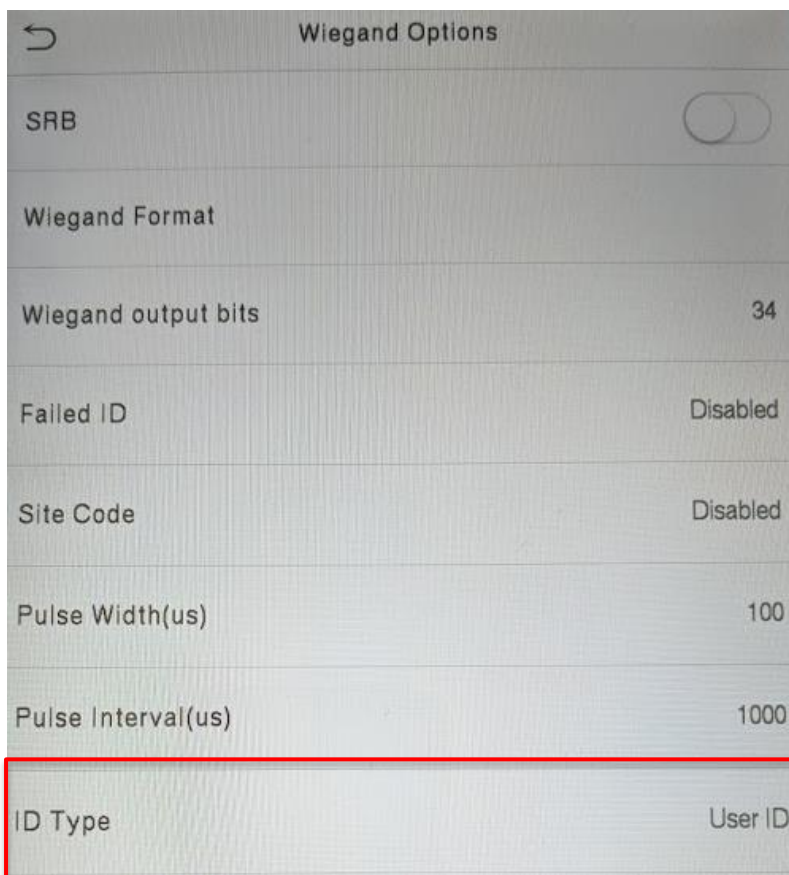


# SUPPORT INFORMATION

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.

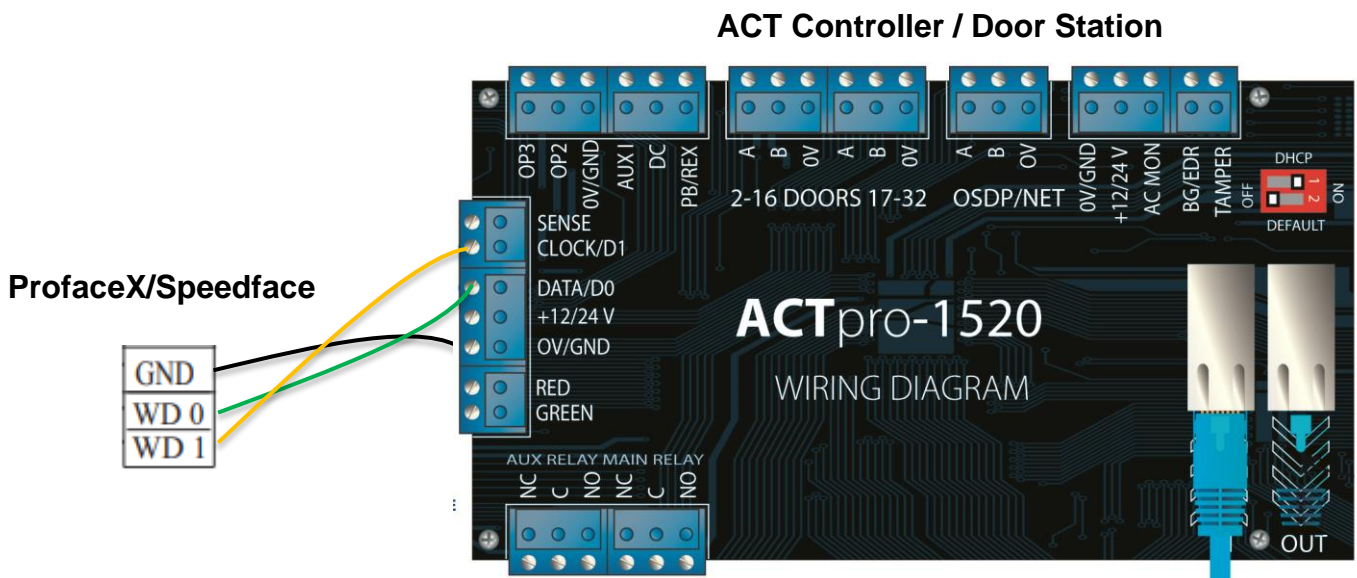
# SUPPORT INFORMATION

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

Use this format

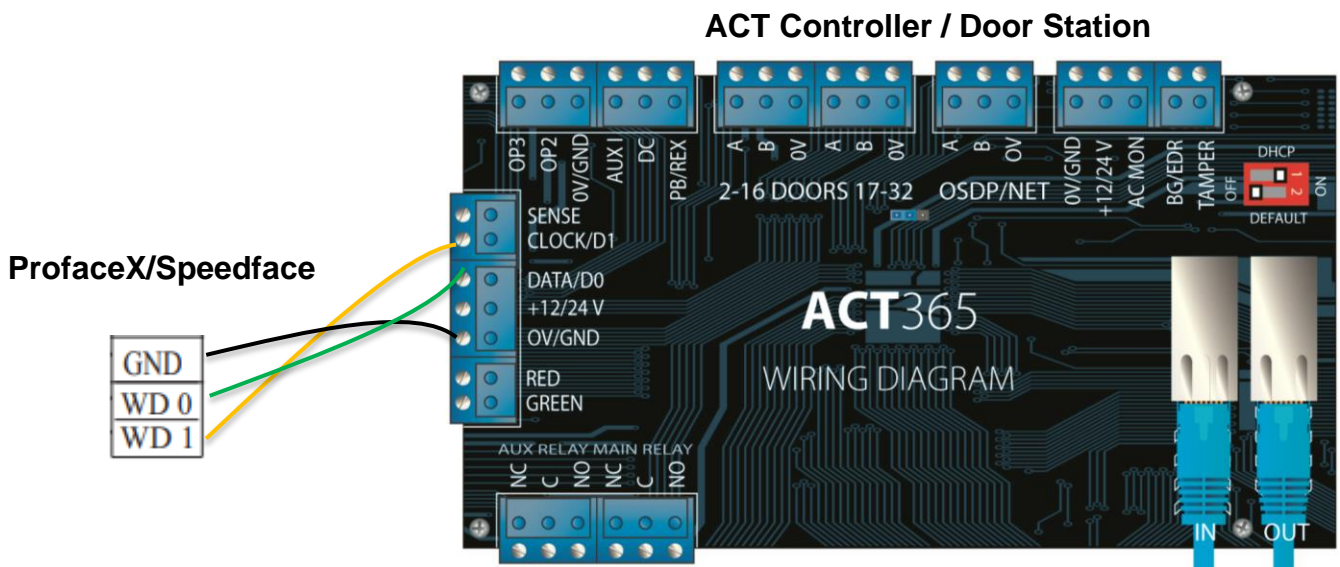
Check built-in formats

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

## 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

Name	Format Type	Total no. of Bits	Card Number Length	User Editable	Site Code	Is Active	Settings
ZK Teco Format	Wiegand	34	32	✓	0	✓	⚙️
HID 26-bit Wiegand	Wiegand	26	16	✗	0	✗	⚙️
Vanderbilt 34-bit Wiegand	Wiegand	34	20	✗	0	✗	⚙️
HID 34-bit Wiegand	Wiegand	34	16	✗	0	✗	⚙️
HID 35-bit Wiegand	Wiegand	35	16	✗	0	✗	⚙️
HID 37-bit Wiegand	Wiegand	37	19	✗	0	✗	⚙️

15 items per page 1 - 6 of 6 items

The Card format to be used should be as follows:

Card Format

**Card Format Details**

Name:

Format Type:

Start from End:

Total no. of Bits:  (0 to 120)

Card Number Length:  (1 to 33)

**Site Code**

Use Site Code?

**Parity Settings A** **Parity Settings B**

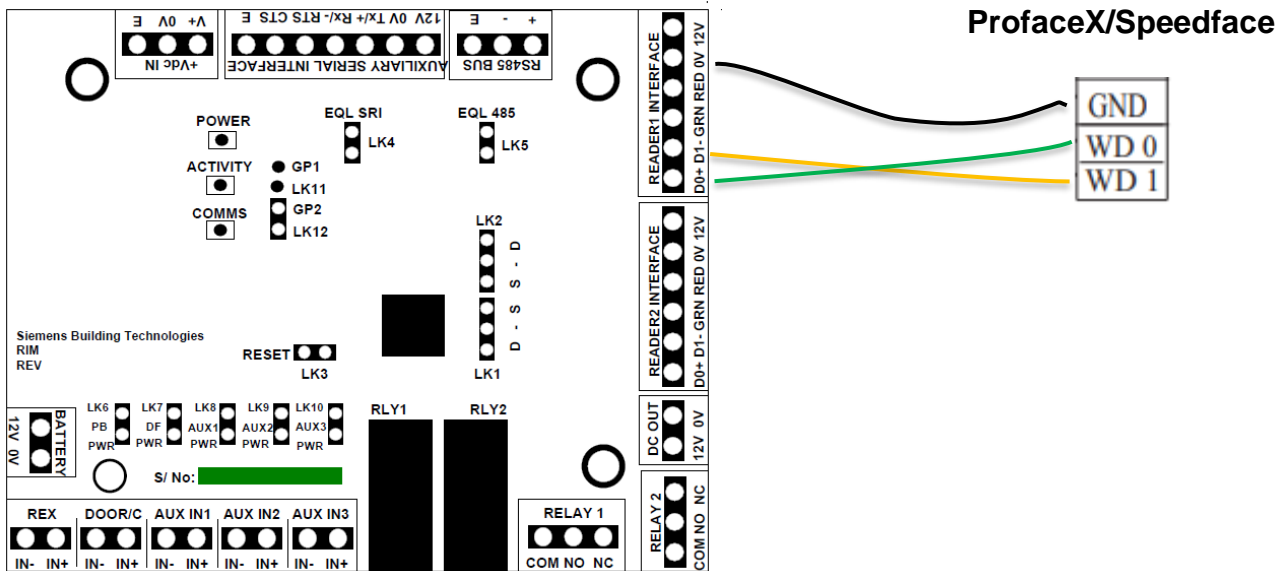
Select Bits:  E  O  D Select Bits:  E  O  D

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

Name: 34-Bit Wiegand™

Total Length: 34 (1 to 128)

Number: 32 (1 to 34, MSB at 2)

Facility: 8 (1 to 34, MSB at 2)

Facility Additional: 1 (1 to 34, MSB at 1)

Revision: 1 (1 to 34, MSB at 1)

Even Parity: 13 (1 to 34)

Odd Parity: 27 (1 to 34)

Decoding

Bits:

Total Length: Failed (Length = 128)

Number: 0

Facility: 0

Revision: 0

Even Parity: Ok

Odd Parity: Ok

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.

The screenshot shows the 'FLN Configuration' window. On the left is a tree view under 'Global Settings' containing 'ACC Controllers', 'ACC\_AP\_33649356', 'FLN 1 (AP Onboard FLN Bus)', 'ACC\_Top', 'FLN 2 (ACC FLN Bus)', and 'Wiegand DRI'. The main area has three tabs: 'Device Details', 'Configuration', and 'Offline Mode'. The 'Configuration' tab is active, showing a 'Reader Technology' table with columns 'Reader' and 'Technology'. The table contains one row: 'All Readers' with 'Custom Card (Wiegand)'. Below this is a 'Custom Card Format Configuration' section with a dropdown menu set to '34-Bit Wiegand™', which is highlighted with a red box. Other sections include 'Inputs' (Monitored/Unmonitored), 'Local Output follows Local Input' (Yes/No), 'Reader LEDs' (Red LED On/Off), 'Reader Tamper Auto-Reset' (Yes/No), and 'Mifare Smart Card Configuration' (Configuration dropdown, Sector: 0, Block: 0). At the bottom are buttons for 'Refresh Display', 'Set Display to Last Default', and 'Save Configuration'. A red message '\*This Device is Offline' is displayed. Below the main configuration is a 'Local Audit Trail' table with columns: Bus Name, Unit Name, FLN Number, Device Number, Action Requested, and Message. The table is currently empty. At the bottom are buttons for 'Refresh', 'Search Devices', 'Download Firmware', and 'Close'.

Reader	Technology
All Readers	Custom Card (Wiegand)

Custom Card Format Configuration  
Configuration: 34-Bit Wiegand™

Bus Name	Unit Name	FLN Number	Device Number	Action Requested	Message
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# SUPPORT INFORMATION



If you have any questions, please contact our Technical Competence Centre.  
Contact details can be found on our website.

