



## Entro - VR series readers with Cotag Combi Credentials

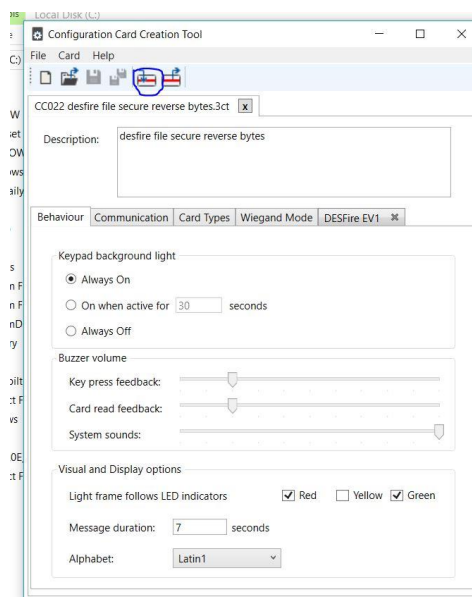
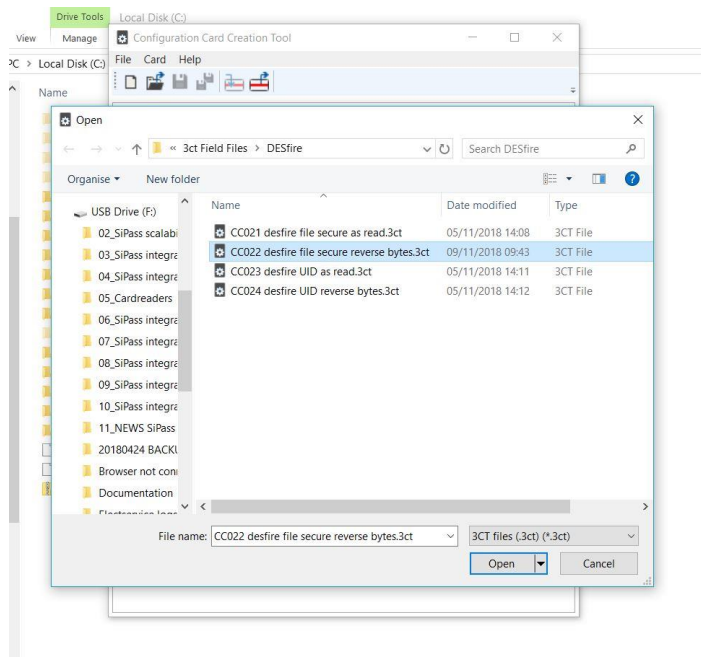
This document describes how to configure VR series readers for use with Cotag Combi Cards/Fobs on the Entro access control system

### NOTES

- This has been tested successfully with DC12 and DC22 door controllers.
- The VR series reader should be configured with the following firmware.
  - VR10 - V.02.003.021 or later
  - VR20 - V2.000.04 or later
  - VR40 - V.02.003.021 or later
  - VR50 - V2.000.04 or later
- No Software Configuration is required within Entro.

## 1. Creating a Configuration Card for the VR Reader

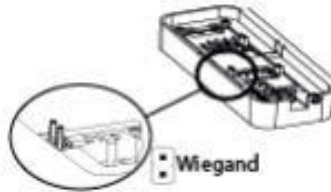
The Cotag Combi Card/Fob sector is encoded with the ACT Desfire format, a config card will be required in order to program the reader to read the sector. The config card can be created using the 3CT Configuration Card Creation Kit and the CC022 (Desfire file secure reverse bytes) 3CT file. The config card will need to be presented to the reader upon power up.



## 2. Reader Configuration

Firstly the Reader must be set for Wiegand mode by ensuring Jumper 1 is disconnected

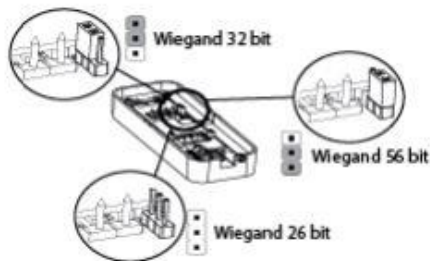
### Jumper 1



Jumper 1 is OFF to select Wiegand.

Jumper 2 should be configured for Wiegand 32 bit, therefore the should be on the first two pins.

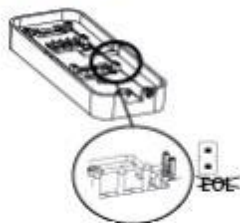
### Jumper 2



- Jumper 2 is ON the first two pins for Wiegand 32 bit.

Jumper 3 must be OFF in order to disable EOL.

### Jumper 3



- Jumper 3 is OFF to disable EOL.
- Jumper 3 is always OFF in Wiegand mode.

## 3. Wiring the Reader to the Controller

Use the terminal blocks marked +-BA and RY/TGH and a pair of twisted screened cables (4 pairs + screen), such as Belden 9502 to connect to the reader in Wiegand mode.

Reader	DC12/DC22
+	+V - Terminal 15
-	0V - Terminal 16
B	D1/Data - Terminal 20
A	D0/Clock - Terminal 19
R	Red - Terminal 17
G	Green- Terminal 18

# SUPPORT INFORMATION



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

**VANDERBILT**

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