



Acre Multi-tech Reader with Omnis E100 and E200 – OSDP Protocol

This document describes the process for connecting the acre multi-tech reader to Omnis, using OSDP. The readers are configured to read the acre supplied LEAF credentials.

1. Reader Detail

The acre multi-tech reader has a built-in auto-detect function, meaning depending on how you wire the reader, it will configure itself accordingly (OSDP / Wiegand), however this guide will focus on connecting as an OSDP reader. **(Wiegand Not supported in Omnis)**

Note – If a reader has been connected as OSDP, then it will lock itself to this format, and a config token will be required to revert to Auto-detect mode.
See chapter 4 **Additional information**.

2. Wiring Reader to E100 - OSDP

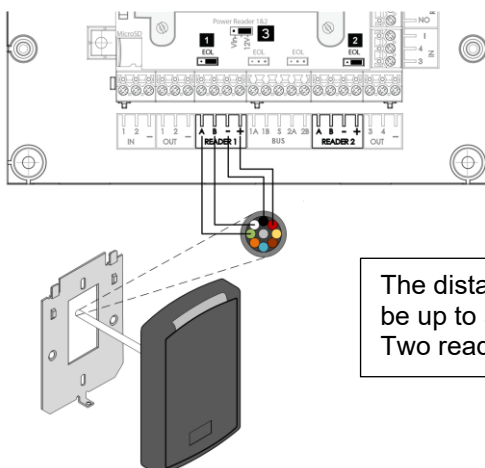
The reader is wired in the following way:

Reader	E100
Red	+12v
Black	0v
Green (RS485-A)	Reader A
White (RS485-B)	Reader B

Note:

- **Only 12V DC supported (5 – 16V DC)**
- **Only manual addressing** if multiple readers are connected to the same Port. (see chapter 4)
- Only OSDP communication supported
- Do not mix Wavelynx readers with other OSDP connected devices such as VR readers on the same communication bus.

1. Jumper EOL for reader 1 to ON – which is also the default.
2. Jumper EOL for reader 2 to ON – which is also the default.
3. Jumper the supply voltage to 12V.



The distance between the reader and the central unit E100 can be up to 300m if CAT6 UTP or equivalent cable type is used.
Two readers can be connected per reader terminal.

3. Wiring Reader to E200 - OSDP

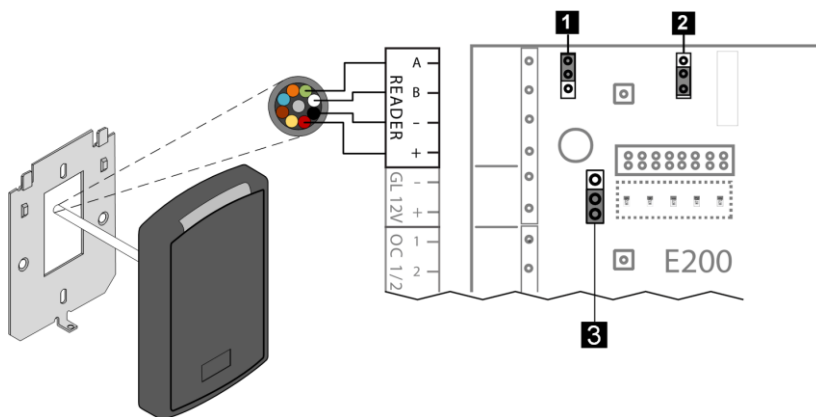
Reader	E200
Red	+12v
Black	0v
Green (RS485-A)	Reader A
White (RS485-B)	Reader B

Note:

- **Only 12V DC supply voltage is supported (5 – 16V DC). (Jumper 3 on E200)**
- **Only manual addressing** if multiple readers are connected to the same Port. (see chapter 4)
- Only OSDP communication is supported
- Do not mix Wavelynx readers with other OSDP connected devices such as VR readers on the same communication bus

To connect a Wavelynx reader to the E200:

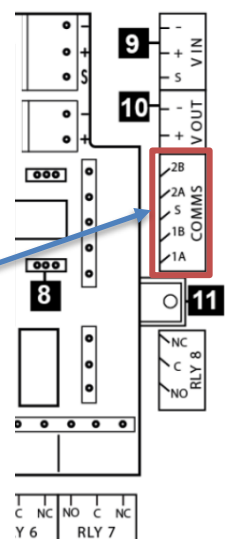
1. Jumper EOL to ON, i.e. the top two pins.
2. Jumper the protocol for the reader to OSDP, i.e. the bottom two pins.
3. Jumper the supply voltage to 12V.



The distance between the reader and the central unit can be up to approximately 300m if CAT6 (22 AWG) or equivalent cable type is used. Two readers can be connected per reader terminal.

Connecting Wavelynx Reader to COMMS Terminal.

A Wavelynx reader can also be connected to the COMMS terminal. The reader signals A & B are connected to 1A and 1B and the voltage terminals are connected to a suitable voltage source. The EOL jumper should be ON





NOTE - The following LEAF credentials from the acre portfolio have been compatibility tested with the acre multi-tech readers.

Credential Part Number	Description
50D4-AS	LEAF, EV2 4K ISO Card
50D8-AS	LEAF, EV2 8K ISO Card
50H4-AS	LEAF, EV2 8K ISO Card w/ Mag Stripe
50H8-AS	LEAF, EV2 Dual Frequency Prox + 4K ISO Card
51H8-AS	LEAF, EV2 Dual Frequency Prox + 8K ISO Card
60H8-AS	LEAF, EV2 8K Keyfob
50L4-AS	LEAF, EV3 4K ISO Card
50L8-AS	LEAF, EV3 8K ISO Card

4 . Setting OSDP Address on the reader.

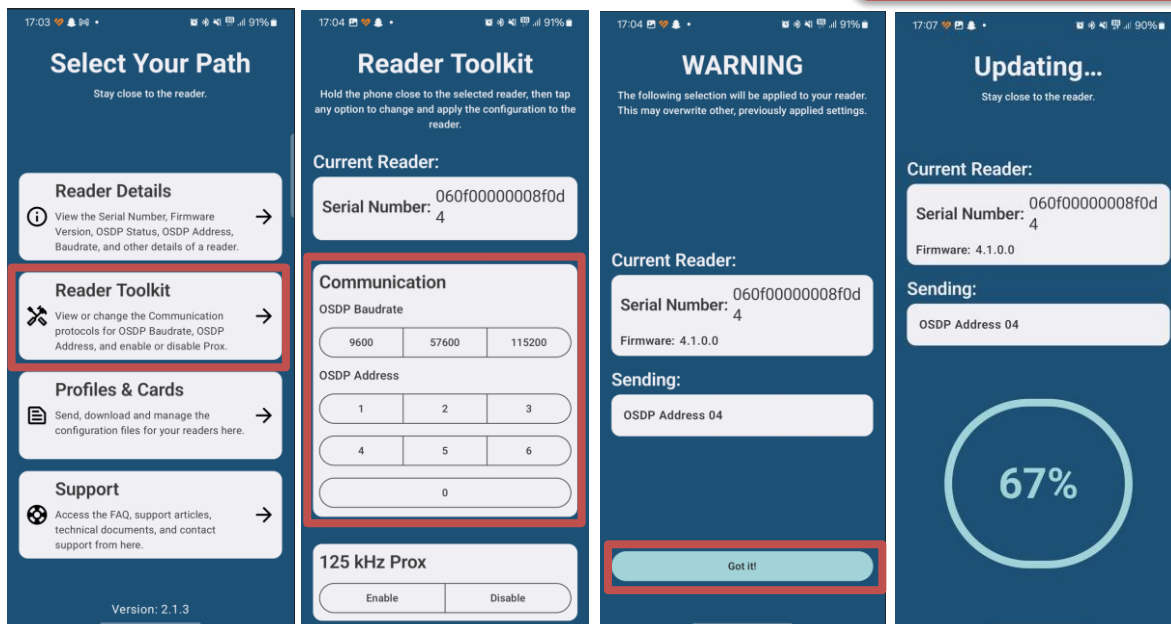
First you need to have the configure App to be able to change settings on the reader.
For Android click [here](#) and IOS [here](#)



Open your configure app, stay close to the reader.

1. Press “Reader Toolkit” and press “Tap” to connect. (stay close to the reader)
2. Now select the OSDP address. (I used 4 in this examples)
3. Press “Got it” and press ”Tap” to configure the reader.
4. The app will now update the reader with the selected OSDP address and reader will reboot once it’s completed.

Change settings on the reader
needs to be done within 1 min
after reader power up



Additional information:

If the reader has previously been connected as an OSDP reader, it will be fixed to OSDP mode, and needs to be “reset” before being usable as a Wiegand reader:

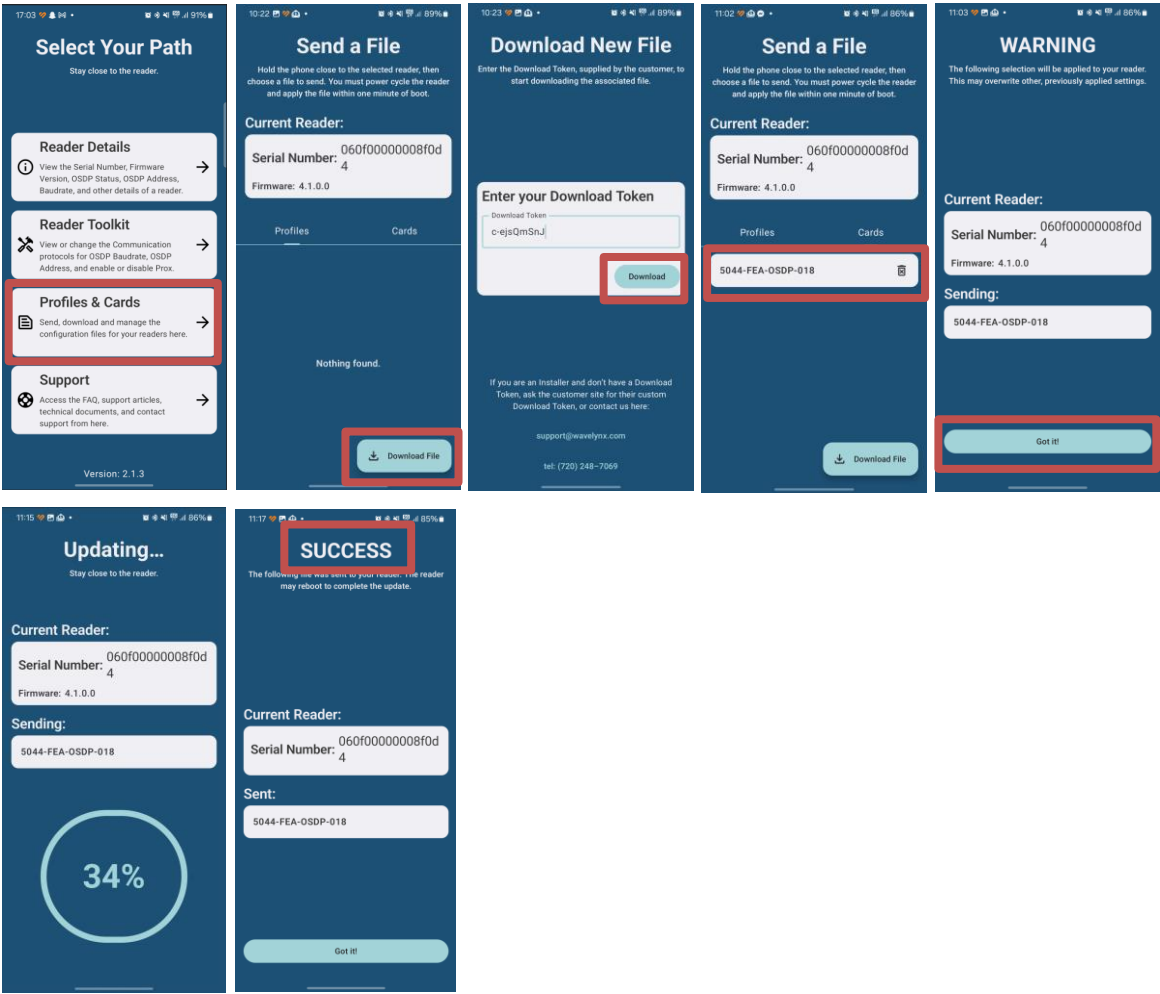
To re-enable Wiegand functionality (OSDP Auto-detect mode), you will need to enter the token via the Configure Mobile App:

Within the Configure App:

1. Press “Profiles & Cards” and press “Tap” to connect.
2. Press “Download File”
3. Now enter Token: **c-ajsQmSnJ** and press “Download” (you can press no to add more tokens)
4. Now select your new Cards (5044-FEA-OSDP-018) and press “Got IT” and then “Tap” to update the Reader.
5. The reader will reboot once it’s completed.

Change settings on the reader
needs to be done within 1 min
after reader power up

SUPPORT INFORMATION



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If you have any questions, please contact our Global Technical Services team.
Contact details can be found on our website.