



Entro to ACTpro migration – Based on EMxx500 series readers

This guide details how to migrate an Entro system to ACTpro, whilst keeping the EMxx500 series readers and associated credentials.

Pre-requisites

- You need two fast diodes 1N4148 or equivalent in case of 2 readers Entry/Exit on a door.
- All readers must be configured Clock & Data
- A 3-pair cable is needed between XX500 readers and ACT Controller/Door stations.

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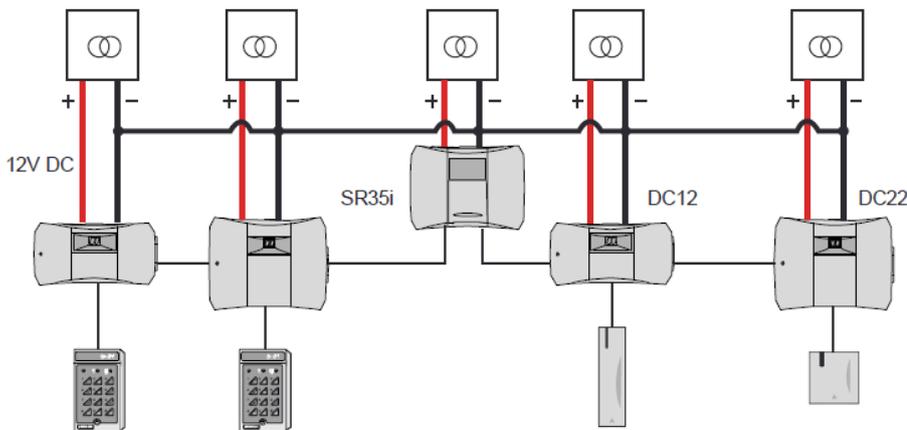
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1. Cabling & bus infrastructure

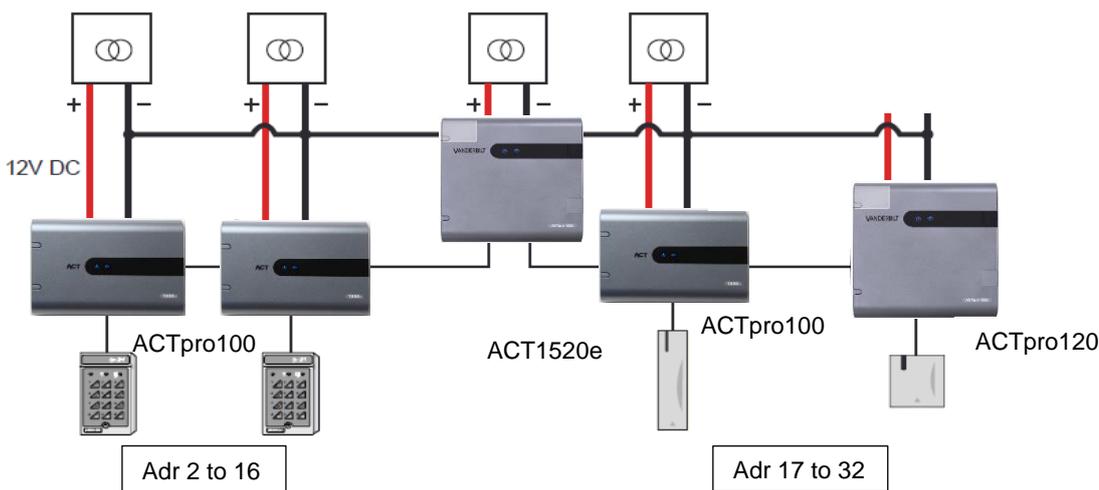
The Entro system is very similar to ACTPro hardware infrastructure and can be migrated on a one to one basis.

Care should be taken regarding the PSUs DC voltage which can be 12VDC or 24VDC – **Note – Older ACT pro hardware only had 12v support.**

Example of Entro infrastructure



Example of equivalent ACT infrastructure



Care should be taken to door station bus wiring and topology:

- ENTRO is only 1 bus, totaling 32 door stations.
- ACTpro gets 2 separate buses for door stations:
 - 1- [Adr 2 to 16]
 - 2- [Adr 17 to 32]

2. Configure PP500 reader for Clock/Data

For HD500, SP500 and PR500 they are Clock&Data by default.

However, the PP500 should be specifically configured to C&D as per following procedure:

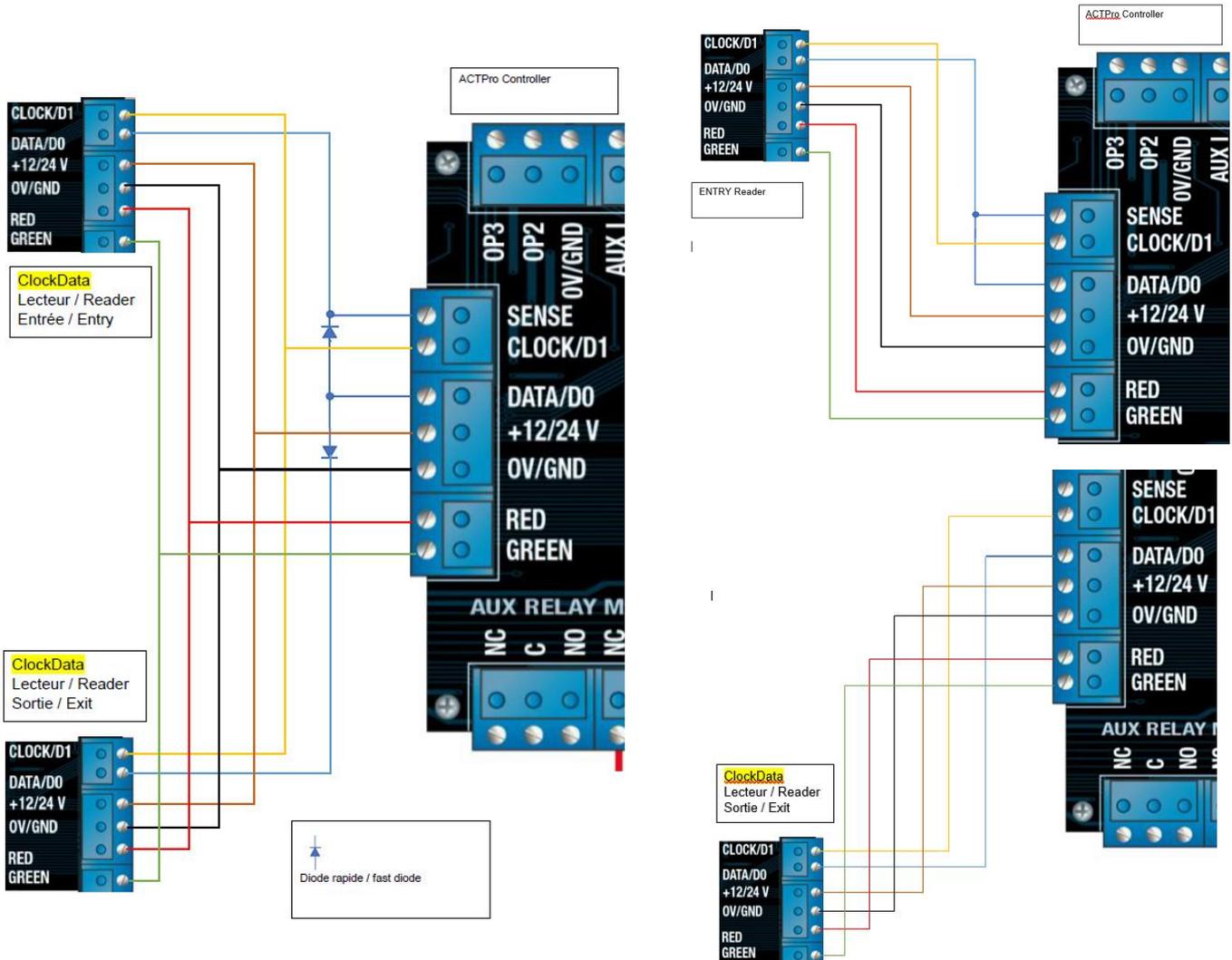
- 1- Power down the reader
- 2- Press B button and keep It pressed.
- 3- Power up the reader
- 4- When the Red and Green LED is lit release the B button
- 5- Press A3 and press B
- 6- The reader now plays a confirmation tone



3. Wiring Readers to Controller/Door stations

For wiring two readers as Entry & Exit for the same door, you need 2 fast diodes - 1N4148 or equivalent, to split the DATA wire to the readers.

Note: Reader DATA/D0 must be connected also to SENSE on the controller/door station for an Entry Reader configuration.



4. Import User details and badge number

1- Export ENTRO Users into a .csv file

Column 1 is FirstName_LastName

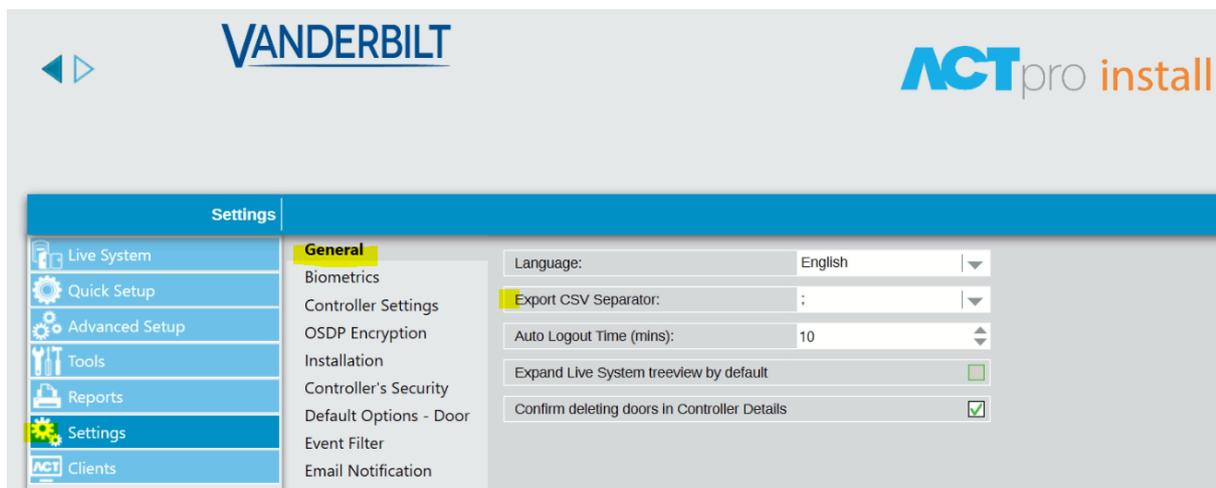
Column 4 is the Card Number with 8 digits

Column 5 is the PIN code 4 digits

Jacques Azoulay			23654189	
Maher Khayati			74198712	
Rajendran Seraimane			25345689	
Sami El Adjami				
Sebastien Beudy			78996345	

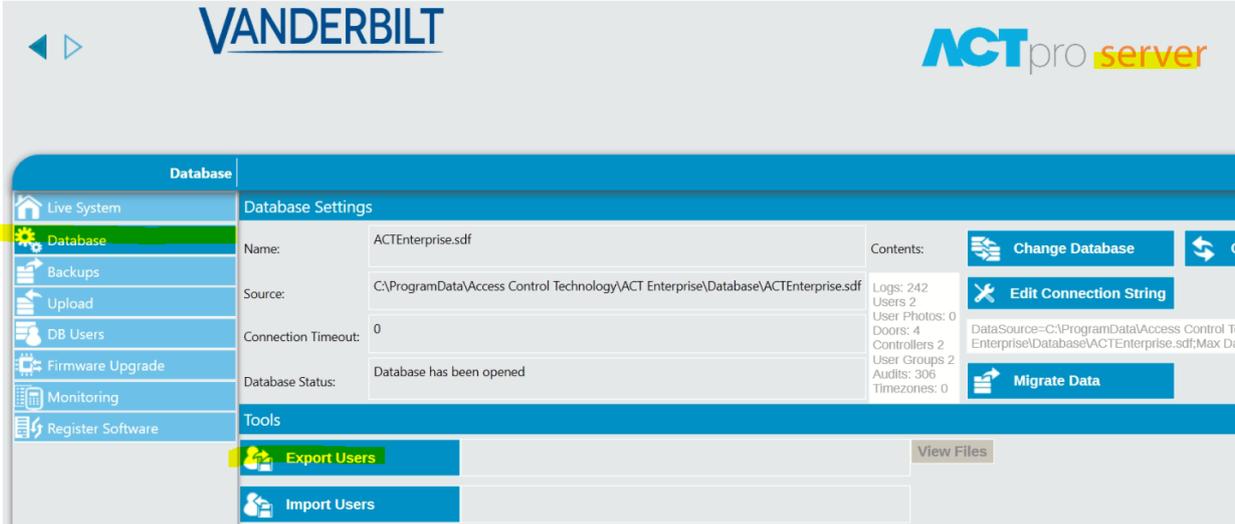
2- Export ACT Users into another .csv file to get the required template.

Note - Prior to exporting Users from ACT you must configure the Export CSV Separator depending on your country requirements – Most countries are using a coma [,]; French countries as an example, use the semi-column [;]



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Then do the User Export in ACT Server



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A Users.csv file is stored on your PC. Open it with excel –

A	B	C	D	E	F	G	H	I	J	T	U	V
User Number	Enabled	First Name	Surname	Card Number	Visitor	Batch Card	PIN	User Group	UF-	Card 3	Card 4	Card 5
1	1	Jimmy	CARTER	1213456789	0	0	1234	1	222222222	333333333	444444444	

You can now work on the Excel file and prepare the transfer of the full list of card holders you need in ACT.

Attention! The Card number is coded with 9 digit in ACT. Therefore, an additional digit must be added to the card number issued from ENTRO system.

Have a look on the numbers written on the badges used on site and identify the additional cipher you must add.

This missing cipher is the unit of the distributor code and has slowly increased during the last years.

It has a high probability that this is the same cipher for all badges on the site.

However, it is possible to have different ones if the site has been upgraded within the past years.

In this case you have to copy/paste the original 8 digit card number and add the 9th cipher +1 to the column T and may be column U as +2.

It is recommended to do this systematically for all Users, because it is quicker within excel and you reduce the probability to have one card holder having their badge not recognized.

Entro User list

Jacques Azoulay		23654189
Maher Khayati		74198712
Rajendran Seraimane		25345689
Sami El Adjami		
Sebastien Beudy		78996345

ACT User list

A	B	C	D	E	F	G	H	I	J	K	S	T	U
User Number	Enabled	First Name	Surname	Card Number	Visitor	Batch Card	PIN	User Group	UF-C	UF-L	UF-U	Card 3	Card 4
1	1	Jimmy	CARTER	123456789		0	0	1234	1			222222222	333333333
2	1	Jacques	Azoulay	123654189								223654189	323654189
3	1	Maher	Khayati	174198712								274198712	374198712

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Fill in also all relevant fields like emails, etc. Once done you can import it within ACTpro software

The screenshot shows the 'ACTpro server' interface for 'VANDERBILT'. The 'Database' section is active, displaying 'Database Settings'. The 'Name' field is 'ACTEnterprise.sdf'. The 'Source' is 'C:\ProgramData\Access Control Technology\ACT Enterprise\Database\ACTEnterprise.sdf'. The 'Connection Timeout' is '0'. The 'Database Status' is 'Database has been opened'. On the right, there are statistics: 'Logs: 242', 'Users: 3', 'User Photos: 0', 'Doors: 4', 'Controllers: 2', 'User Groups: 2', 'Audits: 319', and 'Timezones: 0'. Action buttons include 'Change Database', 'Edit Connection String', and 'Migrate Data'. A 'Tools' section at the bottom has 'Export Users' and 'Import Users' buttons, with 'Import Users' highlighted in green.

The screenshot shows the 'ACTpro manage' interface for 'VANDERBILT'. The user is logged in as 'Administrator'. A status message says 'All 4 doors connected'. The 'Users' section is active, showing a table of users. The table has columns for 'No', 'Name', 'Enabled', 'Valid', 'Biometrics', 'Bluetooth', 'Group', and 'Card Number'. There are three users listed: Jimmy CARTER, Jacques Azoulay, and Maher Khayali. All users have 'Enabled' and 'Valid' status checked with green checkmarks.

No	Name	Enabled	Valid	Biometrics	Bluetooth	Group	Card Number
<input type="checkbox"/>	1 Jimmy CARTER	✓	✓			Groupe avec accès complet	123456789
<input type="checkbox"/>	2 Jacques Azoulay	✓	✓				123654189
<input type="checkbox"/>	3 Maher Khayali	✓	✓				174198712

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