

# XPressEntry / Vanderbilt ACT PRO Data Manager Synchronization Revision 03/15/2022

For use with the XPressEntry Mobile Access Control System

By

# ♦TELAERIS, Inc.

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# Contents

Purpose	4
Limitations	4
Overall Order of Operations	4
Setting Up Vanderbilt ACT PRO to Synchronize with XPressEntry	4
Enable XPressEntry Synchronization	6
Configure ACT Pro Settings	8
Reader Profile Tab	9
ACTPro Sync Check1	0
ACT Pro - XPressEntry Mapping1	1
Doors1	2
Users1	3
User Permission1	5
Groups1	6
Configuring XPressEntry Using ACT Pro Data1	7
Doors1	7
Readers1	9

# Purpose

This document is intended to instruct system administrators on how to synchronize an XPressEntry system with Vanderbilt ACT PRO system.

Installation Pre-requisites # ACT PRO 3.2.0.64 or later installed. ACT PRO and XPressEntry should be installed in places on a network where they can talk to each other(or on the same box)

# Limitations

API doesn't allow to push scans from XPressEntry reader to ACT PRO as a usual event, it is rather pushed as Manual Login/ Manual Logout. Invalid/Access Denied scans on XPressEntry handhels can never be sent to ACT Pro as of now.

XPressEntry won't be able to get live updates happening to users/cards/groups since API doesn't provide a mean to subscribe for live updates.

# Overall Order of Operations

- Setup Vanderbilt ACT PRO to enable the API. This typically includes creating a User Account or credentials within that system
- Setup Readers/Panels/etc in other system to receive events if available to data manager
- Enable Data Manager Synchronization from XPressEntry.
- Initial Data Synchronization and Setup XPressEntry Data
- Set up XPressEntry Handheld Readers
- Scan data on card reader and validate functionality

# Setting Up Vanderbilt ACT PRO to Synchronize with XPressEntry

It is assumed that Vanderbilt ACT PRO is installed on a server.

XPressEntry has been tested on Vanderbilt ACT PRO Version 3.2.0.64. For integrations into other versions of Vanderbilt ACT PRO, please contact Telaeris to confirm compatibility.

• ACTpro-API key must be installed in ACTpro software, the ACTpro -API key is an additional cost and purchased through normal channels.

Register Software									
🟠 Live System	Register AC	СТрго							
🤹 Database		-	And Personnel Statements		-				
P Backups	Serial Key				Registered	Add Key			
🖆 Upload	Kaw Turpor	Master Serial Key - Pro			True	Delete Key			
B Users	Feature(s):	Type:         wraster Seriar Key - Fro           ture(s):         ACTpro Server, Milestone, Multi Tenancy, API, User Import Tool; Alarm Mapping; Kone; Mobile App; SPC							
🛱 Firmware Upgrade	Status:	Registered							
Monitoring	Reg. Key:								
GRegister Software	Max. Clients:	Unlimited	Total Max. Clients	Unlimited					
	Max. Doors:	Unlimited	Total Max. Doors	Unlimited					
	Max. WLocks:	10	Total Max. WLocks	10					
	Max. Bio Rdrs	10	Total Max. Bio Rdrs	10					

- The ACTpro server and client machines must be registered on the same domain.
- If ACTpro server is installed and running on a different computer from the development environment, the "app.config.xml" of XPE Service and Vanderbilt Data Manager file should be updated to reference the server address, the default reference is localhost.



		<b>NGI</b>	pro manag	e Subha   He	lp   Sign Out
			Warning: 1 enabled doors	connected, 8 disconnec	ed
DB Users	s Search	<u>م</u>		Print Export	Add DB User
Home	No Name           No         Name           1         Administrator           2         Subha	r Administrator Administrator	Windows Account Tenancy <none> <none></none></none>		
User Groups     Door Groups     Doors					
Timezones     Holidays					
Version: 3.2.0.64	Delete DB User				

Create a demo door for XPE Handhelds (Not Applicable for now since we cannot send activities with door info).

Door Details	XPF-Entry					Print	Export
Home	General Door Groups	Door Number:	9		]		Â
Live System	Actions	Door Name:	XPF-Entry		*		
📝 Manage	Reporting Floor Group	Relay Timer:	5	\$	*		
Users	Tenants	Door Ajar Timer:	60	\$	*		
User Groups		Deny White Ca	ard				
Door Groups							
Doors				Save			
Timezones							
Holidays							
DB Users							
						•	

# Enable XPressEntry Synchronization

XPressEntry uses a module called "Data Manager" to synchronize all data with Paxton. From the main page of XPressEntry, go to XPressEntry / Settings (CTRL+S or Tools>Settings)



From the Settings, select the Data Manager.

• Check "Enable Data Manager, select "VANDERBILTACTPRO" from data manager types and click on Setup Data Manager to configure Vanderbilt ACTPro.

XPressEntry Settings						—	$\times$
File Database SQL Import/Export							
م	🛛 🗹 Enable Data Manager	Type VAN	DERBILTACTP	RO		<ul> <li>Setup Data Manager</li> </ul>	r
🗏 General							
Add / Edit Display	Sync Timers Sync Options						
Badges							
RFID		Disable	Concurrent			Send XPressEntry Activities N	0.44
User Defined Fields		S	ncs			Schu XI ICSSEntry Activities IV	0
Muster Settings							
Question Setup	Download Activity Frequency			Set	Clear	Download Activity Now	
Logging						· · · · · · · · · · · · · · · · · · ·	
Client Settings	Occupancy Sync Erequency			Set	Clear	Occupancy Sync Now	
Wiegand Format Data	eccupancy cyne rrequency				olodi		
Server	Partial Sync Update			0-1	0	Destiel Come News	
Service Settings	Frequency			Set	Clear	Parual Sync Now	
Database							
E Data Manager	Full Sync Update Frequency			Set	Clear	Full Sync Now	
Boader Brefiles							
Handhold Eurocionality	Custom Sync Update			Set	Clear	Custom Sync Now	
Reader Validations	Frequency						
Passwords							
1 00010100							

- a. Type- This is the integration type. Select VANDERBILTACTPRO.
- b. Setup Data Manager- Sends you to the setup form for VANDERBILTACTPRO's data manager settings.
- c. Save and Apply Settings- Saves all settings from the setup form, update frequencies, and activity Synchronization options.
- d. Update Frequency options- Sets and clears the intervals in which the data manager updates XPressEntry.
- e. Sync Now functions- Runs an immediate update.
- f. Send XPressEntry Activities Now- Used to send XPressEntry handheld activities to Paxton.

Set the Update Frequency to as often as you want the system to fully update. Note that only one update can run at a time and if this value is very low the system will constantly try to update (this is not always a problem).

- 1. Full Sync Update- This sync will grab all relevant records from Paxton and update them in XPressEntry. If there is a large number of users in Paxton, this sync option can take some time.
- 2. Partial Sync Update- This sync will grab records from all tables but will only pull users that have been updated since the last data pull. This is valuable when you do not want to wait for a long sync, but want to add new or updated users into the XPressEntry system.
  - a. Do use this sync to quickly update any table in XPressEntry.
  - b. Do use this sync to quickly pull user changes into XPressEntry from Paxton.

- c. Do NOT use this sync to delete a user from XPressEntry who was deleted in Paxton.
- 3. Activity and Occupancy Sync Update
  - a. XPressEntry can pull Occupancy information from Paxton, based on card scans within the Paxton system. If a user scans into the system, the user can be added to the system occupancy within XPressEntry. If a user scans at an exit reader in Paxton, the user can be removed from the XPressEntry occupancy. This is commonly used for Emergency Evacuation management.
  - b. When pulling Occupancy, XPressEntry moves users to the zones they are entering when they scan at a reader.
  - c. When pulling Activities, XPressEntry moves users to the zones they are entering when they scan at a reader AND XPressEntry keeps a log of the activity in its activity history.

All of these options can be changed at any time. Changing any option will immediately take effect.

# Configure ACT Pro Settings

Domain Credentials Dat	abase Credentials
Domain Telaeris	Jser Name Administrator
User Name subha	Password
Password ******************	nual Login/Logout Zones
ACTPro Server IP 10.10.7.4	ogin Building V
Port 8004	Logout Outside V
Server Timezone Pacific Standard Time  H	Hours for activity download 24
Test Connect Defaults OK Status	

#### **Domain Credentials**

Domain Name : Windows Client Credentials domain name, even if ACT Pro Server and XPressEntry are installed on different machines, they should be on same domain.
User Name (Domain) : Windows Client Credentials user name for the system where ACT Pro is installed.
Password (Domain) : Windows Client Credentials Password
Database Credentials
UserName : ACT Pro DBUser username
Password : ACT Pro DBUser password
ACTProServer IP : IP address of the ACT Pro server. Use "localhost" if it is in the same system as XPressEntry.
Port : API Port for ACT Pro Server. 8004 is the default value.
Server Timezone : Timezone of the ACTPro Server. This is required to process the activity time correctly. Default is PST.

**Manual Login Zone** : Zone into which a user is entered when a manual login is performed. **Manual Logout Zone** : Zone into which a user is exited when a manual logout is performed.

**Hours for activity download** : Past hours through which we need to download the activities. **Page Size** : Page size to fetch the records. Default is 100.

Click "Test Connect" after entering all the data correctly, this will connect to the ACTPro API using the given user's name and password and the result will display "Connection Success!" is connected to ACT Pro successfully. Is any error in the connection it will show in the same result window.

The Defaults button is to clear all the entered data and set to defaults value.

Exit out of this form. On the Data Manager tab of the Settings form, select "Save and Apply Settings". It is now time to begin syncing data.

Select "Full Sync Now" to pull all data from ACTPro. Once the sync has finished, all relevant ACTPro records should now display in XPressEntry.

## Reader Profile Tab

The Reader Profile Tab is where you configure the handhelds.

ZPressEntry Settings	×
File Database SQL Import/Export	·
<u>م</u>	Profiles
General	Selected: Default
Add 7 Edit Display Badges	New Clone Delete
User Defined Fields Muster Settings Question Setup Logging Client Settings Wiegand Format Data Server Service Settings Database Data Manager Software Event Viewer Reader Profiles	Validations       Enable Anti-Passback       Enable Soft Anti-Passback         Zones       Holidays       Enable Anti-Passback       Enable Soft Anti-Passback         Readers       Door Readers       Ignore Anti-Passback On Exit       Scanned Badge Must Match User's Facility Code         Timezones       Wamings         Events       Specific Facility Codes         Fingerprints       Required         Iris       Required         Next Check Date
Handheld Functionality Reader Validations Passwords Badge Settings Custom Display Validation Colors Doors Trend Settings Musters ☑ Alert Settings Email Settings Twilio Alerts	Validating: User has access at appropriate times. User Group has Access to Reader Group that is Attached to Door.
	Save Cancel

The only important change to make on this tab is to make sure "Door Readers" and "Timezones" are checked under "Reader Validations". Select "Save" at the bottom right when finished.

# ACTPro Sync Check

The purpose of this section is to help the operator understand exactly what data XPressEntry is pulling from ACTPro API. For a quick setup, please navigate to the next section, "Configuring XPressEntry using ACTPro Data".

# ACT Pro - XPressEntry Mapping

The mapping of each Data pulled from ACTPro is shown below.

Vanderbilt ACTPro	XPressEntry
Door	Door
Door	Reader
Users	Users
Cards	Badges
User Groups	Groups
Time Zones	Time Zones
Holidays	Holidays

Table 1 – Ma	apping	Data
--------------	--------	------

All External Records (From ACT Pro) will display in red as an "External Record" at the top of the form. This label will not display for any records that were created from within XPressEntry.

Below are the Mapping details of each Data pulled from ACT Pro.

### Doors

All Doors should be available to view in the Doors tab under Add/Edit Info. Here is a sample of a properly synchronized doors:

🕺 XPressEntry (Administrator) - 3.0.999 - Telaeris Inc (Logged In User: Administrator, Company) – 🗌	$\times$
File 👬 Tools 🐼 View 👞 Logout 🚫 Entry/Exit 🕅 Muster	Help
Entry/Exit Muster Events HealthCheck Activity History Messages Add/Edit Info Server Activity	
External Record:1	
Filter 🛛 🕑 🖨 😮 Users Companies Groups Zones Doors Readers Roles Timezones MusterSites	
Door 1 - 1       Door Name         Door 2 - 1       Door 1 - 1         Door 3 - 1       Door 3 - 2         Door 4 - 1       Door 4 - 2         XPF-Entry       End Zone         Building          Door RFID Tag #         Externed Externel Externe	
Reader-Door 1 - 1	
External Exit Reader Reader-Door 1 - 1	
Time to Read 9 Records: 0.01 seconds Add New Delete Save Cancel	16

## ACT Pro Doors

Doors				Advanced ¥					Print Export Add Door
Pop Live System		No.	Door Name	Controller Name	Controller	Local Addr.	Firmware	Status	Elevator Enabled
e Juve System		1	Door 1 - 1	Controller 1	1	1			×
Ouick Setup		2	Door 1 - 2	Controller 1	1	2		3	~
		3	Door 2 - 1	Controller 2	2	1			~
Advanced Setup		4	Door 2 - 2	Controller 2	2	2			~
		5	Door 3 - 1	Controller 3	3	1			~
Controllers/Hub Gro		6	Door 3 - 2	Controller 3	3	2			~
		7	Door 4 - 1	Controller 4	4	1		3	×
Hub Groups		8	Door 4 - 2	Controller 4	4	2		8	×
Doors		9	XPF-Entry	TelaerisController	5	1		B	×
I/O Modules									
Video Servers									
Kone Lift Configuration									
Card Configuration	_								
	Dele	ete Doo	r Enable	Disable Bulk Pr	operties	Autodiscover			

**Readers** – Since ACT Pro doesn't have separate readers, readers are created from each door in XPressEntry automatically.

🕺 XPressEntry (Administrator) - 3.0.999 - Telaeris I	nc (Logged In User: Administrator, Company)	- 🗆 X
File 🕅 Tools 🐼 View 📢	Logout 🚫 Entry/Exit 🕅 Muster	Help
Entry/Exit Muster Events HealthCheck Activity History	y Messages Add/Edit Info Server Activity	
Filter  Handhelds Handheld 1 Server Reader : DESKTOP-MU40SF7 Server Reader : DESKTOP-MU40SF7	Users Companies Groups Zones Doors Readers Name Handheld 1 Door	Roles       Timezones       Muster Sites         XPressFreedom       Settings (optional)         Freedom       Freedom Board         IP       Address         10.10.3.255
	Door 1 - 1 Profile Default  GUID ddc7ff9cdd90d466	TCPIP Port     80       Success Value     LED     2       Success Value     ED     2       Enable Freedom Debug     Relay Sense       Enqueue Requests     Key: DEFAULT
Time to Read 3 Records: 0.00 seconds		BEID Settings (optional)
Readers Reader-Door 1 - 1	External Muster Reader	RFID Reader V
Reader-Door 1 - 2 Reader-Door 2 - 1 Reader-Door 2 - 2	Reader-XPF-Entry ~	Antenna Port 1 💽 Same Zone
Reader-Door 3 - 1 Reader-Door 3 - 2 Reader-Door 4 - 1 Reader-Door 4 - 2	Clear Reader Credential	No Associated Reader
Reader-XPF-Entry		Upload ID Scan License Clear
Time to Read 9 Records: 0.01 seconds	Add New Delete	Save Cancel 12

### Users

Here is a sample of a properly synchronized user:

	Fig	gure 10 – User	rs		
Market Ma	nc (Logged In Use	er: Administrator, Comp	any)	_	
File I Tools 🐼 View 🔌	Logout 🚫	Entry/Exit	<i>A</i> uster		🕜 Help
Entry/Exit Muster Events HealthCheck Activity History	Messages Add	I/Edit Info Server Activity			
	E	cternal Record:3			
Filter 🥥 🔿 🔿	Users Compani	es Groups Zones Do	ors Readers Roles Time	zones Muster Sites	
, User 27	User Permiss	ions Contact Info UDFs	/Misc		
, User 28	First Manua	Loot Name	M	Dhata CD (0)	
, User 29	First Name	Last Name	IVII	Photo FP (0)	
, User 30	Bjorn	Lomberg			
, User 31	Compony			in the second	
User 33	Company		· ·	Riter	
User 34	Emp ID		Visitor		
User 35					
, User 36	Zone 0	utside	✓ U Host		
, User 37	70	ne Entry: 02-12 01:09:0	9 AM	i de	
, User 38	20				
, User 39	La	st Reader:			
, User 4					
, User 40				10.00	
, User 41					
, User 42	Role E	ntrant	$\sim$	Change Crop	Delete
, User 44		-			
, User 5					
llser 7	Badges	d d Da da a 🖉 🙆 Dalate	Badaa 🙆 Minus History	🚍 Drint Dardan	
User 8	(2) V A	dd badge 🚺 😺 Delete	Badge View History	Print badge	
, User 9		A stimute of	Evering d		Padas
Administrator, Company	Badge	Deto	Dato Invalid	FC	Turpo
Jacobsma, Alex		Date	Date		туре
k, User 43	1002452	299			~
KP, Sreejith	2031002	23			~
Lim, Kelly		1			
Lomberg, Bjorn					
Thonakkod, Subha			Course	Ornert	
Time to Read 46 Records: 0.01 seconds	Add Ne	w Delete	Save	Cancel	4
Activity Occupancy Partial Full   Total Occupanc	cy: 0 Inside 0 Zone	es   0 Unr	ead Messages	Service Runnir	ig Locally

XPressEntry will pull the user's image and badge number from ACT Pro. The badge number can be seen at the bottom of the screen.

Figure 11 – ACT Pro Users

User Details	Bjorn Lomberg					
🖰 Home		General	User Number:	3		
Live System		Details Options	First Name:	Bjorn	*	
Manage		Door Plans	Last Name:	Lomberg		
Lusers		Extra Rights	Email			
	Unload Photo	View Doors	Mobile			
	Save Rhote	T&A Integration	User Group:	Full Access Group	<b> </b> ▼ *	
Door Groups	Save Photo	Audit Details	Cinabled			
Doors	Clear Photo		Cards and PIN			
Timezones			Card 1 (One-To-One)	100245299		Ge
Holidays	<					►
DB Users			Manual	Login Manual Logou	Delet	te Save

#### **User Permission**

File 👭 Tools 🚱 View 📣	Logout 🚫 Entry/Exit 🧖 Muster	() Help
Entry/Exit Muster Events HealthCheck Activity History	Messages Add/Edit Info Server Activity	
	External Record:3	
Filter	Users Companies Groups Zones Doors Readers	Roles Timezones Muster Sites
User 27	User Permissions Contact Info UDFs/Misc	
, User 28		
, User 29	Access Groups	Add User to Group
, User 30	Full Access Group	
, User 31		~
, User 32		
, User 33		Allow User to Zone
, User 34 User 35		
User 36		· · · · · · · · · · · · · · · · · · ·
. User 37	Direct Zee - Demissions	
User 38	Direct Zone Permissions	Show All Zones User has Permission to Access
, User 39	Timozono	
, User 4	Zone Name Name	Allow User to Timezone
, User 40	Hume	
, User 41		~
, User 42		
, User 44		
, User 5		
User 7	Allowed Times	
User 8		
. User 9		
Administrator, Company		
Jacobsma, Alex		
k, User 43		
KP, Sreejith		
Lim, Kelly		
Lomberg, Bjorn		
I nonakkod, Subna	Add Now Delete	Concol
Time to Read 46 Records: 0.01 seconds	Add New Delete 5	Cancel 2
Activity Occupancy Partial Full   Total Occupance	y: 0 Inside 0 Zones   0 Unread Messages	Service Running Locally

Bjorn Lomberg				
~	General	User Number:	3	
	Options	First Name:	Bjorn	*
	Door Plans	Last Name:	Lomberg	
	Extra Rights	Email		
Lipland Bhoto	Recent Events	Mobile		_
Opioad Photo	T&A Integration	User Group:	Full Access Group	*
Save Photo	Audit Details	Carabled		
Clear Photo		Cards and PIN		



🛃 XPressEntry (Administrator) - 3.0.999 - Telaeris	Inc (Logged In User: Administrator, Company)	- 🗆 X
File 🎢 Tools 🐼 View 📢	Logout 🚫 Entry/Exit 🕅 Muster	() Help
Entry/Exit Muster Events HealthCheck Activity Histor	Messages Add/Edit Info Server Activity	
	External Record:1	
Filter	Users Companies Groups Zones Doors Readers Roles Tir	mezones Muster Sites
All Access	Name	
Demo Group Full Access Group	Full Access Group	
No Access Subha's Group UG	Is Default Group Group Allows Reader Login Readers Zones Holidays	
	Readers	Selected
	Handheld 1 Reader-Door 1 - 1 Reader-Door 2 - 1 Reader-Door 2 - 1 Reader-Door 3 - 1 Timezones 24 Hours 24 Hours	Handheld 1 (Office Hours TZ)           Reader-Door 1 - 1           Reader-Door 1 - 2           Reader-Door 2 - 1           Reader-Door 3 - 1           Reader-Door 3 - 1           Reader-Door 4 - 1           Reader-Door 4 - 2           Reader-Door 4 - 2           Reader-XPF-Entry
	Office Hours TZ	
Time to Read 5 Records: 0.38 seconds	Add New Delete Save	Cancel
Activity Occupancy Partial Full   Total Occupan	ncy: 0 Inside 0 Zones   0 Unread Messages	Service Running Locally

Since XPE has no separate User Groups and Door Groups, User Groups has been mapped to Groups, and readers has been included in each group according to the door group.



	User Grou	ups	Sear	ch	<i>P</i>			Print Export	Add User (
А н				No	Name	Enabled	Number Of Users	Access Rights	Elevator Gr
				1	Full Access Group	~	14	All Doors-24 Hours	
Bo Li	ve Svstem			2	Subha's Group UG	V	30	Subha's Doors DG-Office Hours TZ	
				3	Demo Group	V	1	All Doors-24 Hours	
📝 м	anage								
8	Users								
8	User Groups								
	Door Groups								
9	Doors								
0	Timezones								

Door Group Details	All Doors			
home	General User Groups	Door Group Number:	255	
Live System	Tenants	Door Group Name:	All Doors	*
📝 Manage		Available Doors	Doors in Group	
と Users		Name	P Name	~
User Groups			Door 1 - 1	
Door Groups			Door 2 - 1	
Doors			Door 3 - 1	
Timezones			Door 4 - 1	
Holidays			XPF-Entry	

# Configuring XPressEntry Using ACT Pro Data

Now that XPressEntry has ACTPro database, it needs to be configured to use this information. The tabs that need to be configured are the Doors, Readers, and Zones.

### Doors

Entry/Exit permissions in XPressEntry are set by doors. Doors contain two readers, an exit and an entry reader. Door access is determined by the User's access to the door's reader. For entry, permission is based on the user's access to the door's external entry reader. For exit, permission is based on the user's access to the door's external exit reader.

Doors should be set by the user for each Handheld Reader in XPressEntry.

The XPressEntry Integration with ACT Pro could use default zones created by XPressEntry while installation or could create more zones manually in XPressEntry, since ACT Pro does not have zones.

While pulling doors from ACT Pro a reader is created in XpressEntry with respect to each door as shown in the below image.

💐 XPressEntry (Administrator) - 3.0.999 - Telaeris Ir	c (Logged In User: Administrator, Company)	- 🗆 X
File 🖁 Tools 🐼 View 🔌	Logout Sentry/Exit Muster	() Help
Entry/Exit Muster Events HealthCheck Activity History	Messages Add/Edit Info Server Activity	
	External Record:1	
Filter	Users Companies Groups Zones Doors Readers Roles Timezones Must	er Sites
Door 1 - 1	Door Name	
Door 1 - 2 Door 2 - 1	Door 1 - 1	
Door 2 - 2		
Door 3 - 1 Door 3 - 2	Start Zone	
Door 4 - 1	Outside ~	
Door 4 - 2 XPE-Entry	End Zone	
Art Entry	Building	
	Door RFID Tag #	
	External Entry Reader	
	Reader-Door 1 - 1 V	
	External Exit Reader	
	Reader-Door 1 - 1	
Time to Read 9 Records: 0.00 seconds	Add New Delete Save Ca	ncel 16
Activity Occupancy Partial Full    Total Occupanc	y: 0 Inside 0 Zones   0 Unread Messages   Sen	vice Running Locally .::

Figure 22 – XPressEntry Doors

- a. Zones For each door, set the start zone and end zone. This will "enter" a user in the specified zone when they enter or exit (or scan at ACT Pro door).
- b. External Readers Attach the logical entry and exit readers that are created automatically while pulling doors from ACT Pro.

There should be a door in XPressEntry for each physical station that an employee will have a handheld. Select "Outside" for Start Zone and "Building" for End Zone.

Doors can also be added for each of the physical door readers. If XPressEntry is set up to pull activities, it will move people in the system based on the reader they were scanned at and the zones attached to the door.

In the XpressEntry system editing of any external data is disabled by default. To enable the settings, you need to go to the XPressEntry Settings, General Tab, Select Add/Edit Display then check the option "Allow Editing of External Data" in the External Data Section.

XPressEntry Settings		-		$\times$
File Database SQL Import/Export				
File Database SQLImport/Export  General Add / Edit Display Badges RFID User Defined Fields Muster Settings Question Setup Logging Client Settings Database Data Manager Software Event Viewer Reader Profiles Handheld Functionality Reader Polies Handheld Functionality Reader Validations Passwords Badge Settings Custom Display Validation Colors Reader Questionnaires Visitors Doors Trend Settings Email Settings Twilio Alerts Copy Resx File	General         Show Badge Types Form       Show Nisitor Pre-Registration Form         Show RFID Form       Show Badge Layouts Form         Show Timezones Form       Show Muster Sites Form         Show Deleted Records in Add / Edit List       100         Pagination Size (Zero to Show All)       External Data         Show External Iag in Add / Edit List       Allow Editing of External Data         Reeders       Allow Reder GUID Switching         Show Reader Timezones       Badges         Show Badge Defined Field 1 in Add/Edit         Show Badge Defined Field 3 in Add/Edit         Users         Enable User Watch Lists         Yenforce Employee Badge # Uniqueness         Yenforce Strict Password			
	Save	;	Canc	el

Figure 23 – External Data Settings

### Readers

In XPressEntry's ACT Pro integration, it is not necessary to associate any reader in the system with a handheld. This association can be done on the handheld when it comes time to scan.

A handheld unit can logically represent any reader in the building. When the handheld is issued to an employee at a specific door, the employee must first set the door on the

handheld. The XPressEntry Reader that the handheld represents is based on whether the handheld is in entry mode or exit mode.

For example, let us say that you have handheld A stationed at door A. Door A has two readers associated with it: Reader A-Entry and Reader A-Exit. The employee holding the handheld sets the handheld's door to Reader A. When the employee sees a cardholder walking towards the building, he sets the handheld to Entry mode and scans the cardholder's badge. The handheld in entry mode identifies itself as reader A-Entry and sends an activity to the server.

Later, there is heavy volume exiting Door B. Door B has two readers associated with it: Reader B-Entry and Reader B-Exit. The employee from door A is called to help and brings handheld A. He sets the door on his handheld to Door B and the mode to Exit. When he begins scanning people walking out of the door, the handheld identifies itself as Reader B-Exit and sends each scan as an activity to the server.

## Activities

XPressEntry will synchronize activities to ACT Pro if that option has been set by Data Manager.

If XPressEntry is configured to "push" activities, they will appear in the Alarm Mode Software.

You can also tract the user location in the Alarm Mode> Commands> Cardholder location > Select user.

If XPressEntry is configured to "pull" activities, the occupancy of the system will change each time a person scans at a reader that is mapped to a door in XPressEntry.

You may want to pull activities if...

- 1. You want to use XPressEntry to manage Emergency Evacuations.
  - a. XPressEntry uses ACT Pro activities to determine who is on and who is off campus.
  - b. In the case of a mustering event, XPressEntry will have an up to date list of who is on site on this day.
  - c. Using this list, XPressEntry can be utilized to "muster" or mark people as safe to create a list of people who are still on site.
- 2. You want to use XPressEntry's features to determine who is on site, and what areas people are in.

In Addition to these When the ACT Pro is configured to "Watch Table via Software Events" in Sync options. The live events change in ACT Pro will be pulled in XPressEntry immediately. Such as: Live Activity updates, Cardholder, Badges, Access Level and Time Zones updates.

XPressEntry Settings File Database SQL Import/Export		- 0 X
General Add / Edit Display	Enable Data Manager Type VANDERBILTACTPRO      Setup I     Sync Timers Sync Options	Data Manager
Add / Edit Display Badges RFID User Defined Fields Muster Settings Question Setup Logging Client Settings Wiegand Format Data Server Service Settings Database Data Manager Software Event Viewer Reader Profiles Handheld Functionality Reader Validations Passwords Badge Settings Custom Display	Image: Comparison of the system of the sy	inagerEvent
	Clear Data Manager Settings     Clear External Data       Data Manager Live Log View     Pause       Mirror Log To:	Browse
Validation Colors Doors Trend Settings ⊟ Alert Settings Email Settings Twilo Alerts Copy Resx File		
	Save	Cancel

Figure 24 – Watch ACT Pro Live Events

For more information about the functionality of XPressEntry, please look at the XPressEntry manual.