

XPressEntry / MaxPro Integration

Revision 03/20/2024

For use with the XPressEntry Mobile Access Control System

By



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Purpose

This document is intended to instruct users on how to synchronize an XPressEntry system with a **Honeywell MaxPro** system. XPressEntry has the capability of providing access control management from a handheld device. For XPressEntry setup information, see the document, "XPressEntry Installation and Upgrade" found at **https://telaeris.com/documentation**.

Pre-requisites/Requirements

- 1. XPressEntry 3.5+
- 2. MPC Version 6.4.25 or later
- 3. **Ports 30000, 30001** open for communication between XPressEntry Server and handhelds on machine where XPressEntry will be installed.
- 4. Windows 8.1+ or server type equivalent

Limitations

- 1. API does not allow subscribing to real time badge scans. Activities must be manually pulled from MaxPro.
- 2. API does not allow events for cardholder or card changes in MaxPro.
- 3. Changes to a cardholder or card in MaxPro can only be pulled into XPressEntry via a full sync.
- 4. API does not allow badge scans activities from XPressEntry handheld devices to sync to MaxPro.

Order of Operations

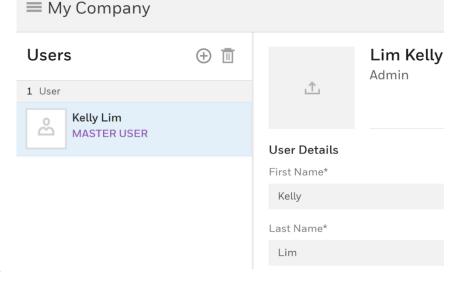
- 1. Setup System MaxPro Data and Settings
- 2. Enable XPressEntry Synchronization
- 3. Set up XPressEntry Data

Setting up MaxPro to Synchronize with XPressEntry

To install XPressEntry, you must have Administrator privileges on its respective machine. You must additionally be an Administrator or super user in the MaxPro System.

Enable XPressEntry Synchronization

XPressEntry uses a module called **Data Manager** to synchronize all data



with **MaxPro**. From the main page of XPressEntry, go to XPressEntry > Settings (**ALT+S or Tools > Settings**).

🍊 File 🛯 Tools 🙆 View 🔞 Logout								🕜 Help
Entry/Exit Settings Alt+S dit In	ifo Logs							
Handheld Status	× . A	9		All Zone	s (Occupancy: 2)			Current Occupants V
Reports Ctrl+R				711 20110	5 (Occupancy. 2)			
Filter: Manual Enter/Exit Users	Carta, David	Simpson, Harriett						
-All Zone-14								
- ∞Building (2) -→Test Door	1							
				an an an an an	029 (2113) AV885			
	× • 🔊			Activity Oc	curring in Last Day			0
	User	User Image	Time Stamp	Start Zone	End Zone	Door	Reader	Entry Granted
	1							
	1							
1								
	1							

General Tab

- 1. From the Settings page, select **General > Logging**.
- 2. Set the Data Manager Log level to **DEBUG** or **VERBOSE**

a. This will allow you to view log entries during the sync process.

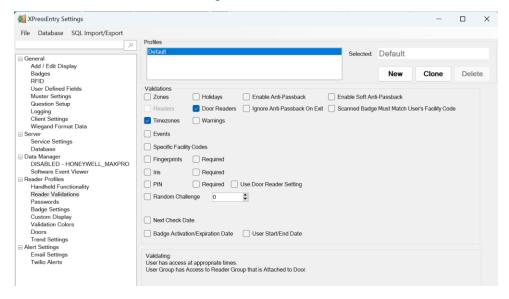
- 3. Max Log Size **5000** or higher
- 4. Max Log Age -1 Day or higher

XPressEntry Settings				-		\times
File Database SQL Import/Export						
م	Logging					
	Handheld	ERROR	~			
⊟ General Add / Edit Display	- Turiunciu	Linion				
Badges	Data Manager	VERBOSE	~			
RFID	Data Manager	VERBOSE	~			
User Defined Fields						
Muster Settings	RFID	INFO	~			
Question Setup						
Logging	Desktop	INFO	~			
Client Settings						
Wiegand Format Data	Service	INFO	~			
Server Service Settings	Service	INFO	~			
Database						
Data Manager	Max Log Size	5000 🗘				
Software Event Viewer						
Reader Profiles	Max Log Age (days)	10				
Handheld Functionality		781				
Reader Validations	Purge Time (mins)	240 🖨				
Passwords						
Badge Settings		Purge Now				
Custom Display						
Validation Colors	Include Data Manager GUID in Log					
Doors	Include Data Manager GOID in Log					
Trend Settings Musters						
Alert Settings						
Email Settings						
Twilio Alerts						
				 Save	Can	cel

Once the integration is complete, set the log level to **ERROR** so only error messages will be tracked.

Reader Profile Tab

- 1. Go to **Reader Profiles > Reader Validations**. This is where you configure the handhelds.
- 2. Ensure that **Door Readers** and **Timezones** are the only mode checked under **Validations**.
- 3. Select **Save** at the bottom right when finished.



Data Manager Tab

From the Settings page, select the Data Manager Tab.

- 1. **Type** This is the integration type. Select **MaxPro** > **Add** > **Save**.
- 2. Go to **Data Manager > MaxPro** in sidebar menu.
- 3. Setup Data Manager This sends you to the setup form for MaxPro data manager.

🛃 XPressEntry Settings					- 0	\times
File Database SQL Import/Export						
General	Туре	HONEYWELL MAXPRO	~	Add	Remove	
Add / Edit Display Badges RFID User Defined Fields Muster Settings Oueston Setup Logging Client Settings Wegand Format Data Server Service Settings Database Data Manager HONE YVELL, MAXPRO Software Event Viewer Reader Profiles Reader Profiles Reader Profiles Reader Profiles Reader Profiles Data Settings Badge Settings Outson Display Validation Colors Doors Trend Settings Email Settings Email Settings	Name	HONEYWELL_MAXPRO	Prefix 6b666a7-4d2f-48ca-b26			
				Sanity Of	neck Data	
				Sanity Cr	IECK Data	
				Sav	ve Cance	el 👘

Sync Timers

XPressEntry uses Timers to pull MaxPro data into XPressEntry.

	Enchle Date Manager					
	Enable Data Manager	Type: HON	EYWELL_MAX	(PRO		Setup Data Manager
ral / Edit Display ges	Sync Timers Sync Options	5				
) r Defined Fields ter Settings stion Setup			Concurrent Syncs			Send XPressEntry Activities Now
ging nt Settings gand Format Data	Download Activity Frequency			Set	Clear	Download Activity Now
r rice Settings	Occupancy Sync Frequency			Set	Clear	Occupancy Sync Now
ibase Manager NEYWELL_MAXPRO	Partial Sync Update Frequency			Set	Clear	Partial Sync Now
ware Event Viewer er Profiles dheld Functionality	Full Sync Update Frequency			Set	Clear	Full Sync Now
der Validations swords ge Settings	Custom Sync Update Frequency			Set	Clear	Custom Sync Now
go Getangs Jation Display dation Colors rs kd Settings Settings						
il Settings	Data Manager Live Log View	Pause	Mirror Log To:			Browse
Twilo Alerts opy Resx File	INFO: DataManager Connected.					

- 1. **Download Activity Frequency** Pulls reader scan records into XPressEntry and stores them in XPressEntry's activity table. This function also updates the zone occupancy.
- 2. Occupancy Sync Frequency Updates the zone occupancy without storing the activity records. Not applicable currently with MaxPro.
- 3. **Partial Sync Frequency** Pulls all data excluding cardholder data, including readers, areas, access levels.
- 4. **Full Sync Update Frequency** Updates all tables by pulling all necessary records from MaxPro. This function may take some time.
 - a. It is recommended to run a full sync **once per day** in the middle of the night when the system is not busy.
- 5. Custom Sync Frequency Updates a set of tables that the user configures.
 - a. To configure, right click **Custom Sync Now** and select **Edit Custom Sync**.

Custom	n Table Sync						-		×
	Add Table							Done	2
Table	USERS	✓ ✓ Partial?	0	Table	BADGES	~	Partial?	3]
Table	GROUPS_USERS	✓ Partial?	8						

Sync Options

-General Add / Edit Display Badges RFID User Defined Fields Muster Settings Question Setup Logging Client Settings Wiegand Format Data Server Service Settings Database Database Pata Manager HoneWetLU MAXPRO Software Event Viewer Hancheld Functionality Reader Validations	Sync Timers Sync Options	e: HONEYWELL_MA	AXPRO	Setup Data	a Manager
	Pull Data Manager Occupancy Default Outside Zone Pull Data Manager Activities into XPressEntry UPush XPressEntry Activities to Data Manager		Message Queue Name .\Private\$\Data Event Processing Loop Limit 10 Event Processing Retry Count 3 Default Role		inagerEvent
Passwords Badge Settings Custom Display Validation Colors Doors	Clear Data Manager Se		Clear External Da	ata	
Trend Settings Alert Settings Email Settings Twilio Alerts Copy Resx File	Data Manager Live Log View F	Ause Mirror Log To:			Browse

- 1. **Pull Data Manager Occupancy** Enables use of the Occupancy Sync.
- 2. Pull Data Manager Activities into XPressEntry Enables use of the Activity Sync.
- 3. Push XPressEntry Activities to Data Manager Not available for MaxPro.
- 4. Send Activities Retry Count Not applicable for MaxPro.
- 5. **Default Role** The default XPressEntry Role that will be assigned to users if the integration does not otherwise assign a role. Entrants are recommended but not required.
- Muster Scanned Users Enables sync to convert scans from specific readers to be converted into Muster Scans which mark users as safe. Muster readers must be configured in the reader data. Please see *Mustering Documentation* for more details.
- 7. Setup DataManager Button Opens MaxPro specific settings.
- 8. Clear DataManager Settings Resets all settings on the two above tabs, as well as the MaxPro specific settings.
- 9. Clear External Data Deletes all data synced from MaxPro from the XPressEntry Database.

MaxPro Data Manager Setup Page

Press the **Setup Data Manager** button to get the MaxPro specific setup screen. In the new window, you will see the following:

Host Url	hbt.api-beta.honeywell.com			Verbose API Data		
User Name	kelly.lim@telaeris.com			Download Pictures		
Password	********	****** 🔽 Enable D	ata Protect	Pictures Per Update 1	00	đ
Consumer Key	*******	******	******	Custom Sync		
Consumer Secret	********			Apply start index o	nly for custom	sync
Site			~	Records Count	100	4
Start Index	0 🗧					
Page Size	100 🗘					
	est Connect Defaults	ОК				

- 1. Host URL IP address of the system where MaxPro server is hosted.
- 2. User Name MaxPro System username
- 3. **Password** MaxPro System password
- 4. **Consumer Key** API Key provided by MaxPro
- 5. **Site** Select a site from which data needs to be synced with XPressEntry. Site names would be populated only after test connect.
- 6. Start Index Index from which records need to be pulled. It is 0 by default.
- 7. **Page Size** Number of records to be pulled in one request.

Click **Test Connect** after entering all the data correctly. This will connect to the MaxPro system using the given user's name and password.

The result will display **Connection Success!** if connected to MaxPro successfully. If there is any error in the connection it will show in the same result window.

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

Enable XPressEntry Synchronization

XPressEntry Data

After setting up the data manager, run the initial **Full Sync** to pull data from MaxPro. Once the MaxPro system is set up and synchronizing, you will see this data represented in XPressEntry under the **Add/Edit Info** tab.

Data which is imported from MaxPro **cannot be changed** and is greyed out in XPressEntry without proper permissions.

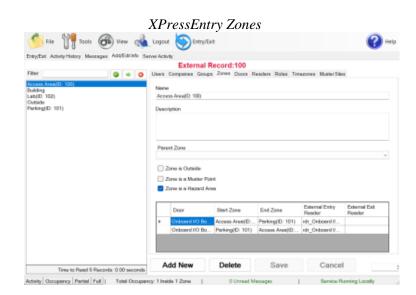
Sync Check

The purpose of this section is to help the operator understand exactly what data XPressEntry is pulling from MaxPro. For a quick setup, please navigate to the next section – **Set up XPressEntry Data.**

MaxPro	XPressEntry
Devices	Doors
Devices	Readers
Cardholders	Users
Cards	Badges
Timezones	Time Zones
Access Levels	Groups
Access Levels	Reader Groups
Card Access Rights	User Permissions

Zones

All Access Areas in MaxPro should be available to view in the Zones tab under Add/Edit Info. Here is an example of properly synchronized zones:



MaxPro Access Areas

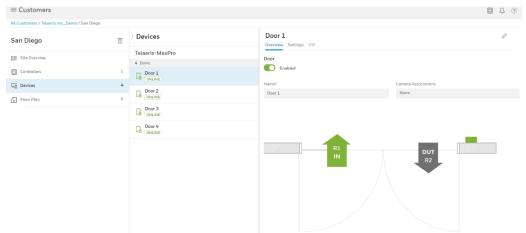
Hardware Globals Access Settings Devices			
Access Settings Access Settings Asm Acknowledgement Response(s) Aam Acknowledgement Instruction(s) Aam Acknowledgement Instruction(s) Aam Acknowledgement Trigger(s) Photo Recall Configuration(s) Time Zone(s) Card Format(s) Map(s) Card Format(s) Lon(s) Card Database(s) Card Database(s)	Access Ares(0: 100)	Parking(ID: 101)	Lab(ID: 102)

Doors

All doors from all sites are available to view in the **Doors** tab under **Add/Edit Info**. Here is an example of properly synchronized doors:

		XPressEntry Doors	
🁏 File 🎁 Tools 🧟	🖻 Ven 🦂	Logout 🍥 Entry/Exit	🕜 Help
Entry/Exit Activity History Message	Add/Editinto 5		
Filter		External Record:105 Users Companies Groups Zones Doors Readers Roles Timezones Musi	er Siles
Onlease HD Board Door 1 Deboard HD Board Door 2 Deboard HD Board Door 2 Deboard HD Board Door 2 Deboard Door Extr Telesrie/Door Ext Door Telesrie/Door		Door Neme Onbeard (VD Board Door 1 Entry Start Zone Patking(D: 161) v End Zone Access Area(D: 192) v Door FPHD Tag # Edennal Entry Reader ind, Onbeard 100 Board Door 1 Entry v Esternel Exit Reader	
Time to Read 6 Reco			ncel

MaxPro Doors



Readers

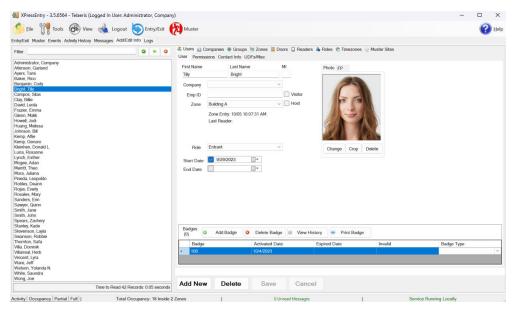
Since MaxPro sends activities through doors, readers are created from each door in XPressEntry automatically.

Entry/Exit Activity History Messages Add/Edit Info	Server Activity	
	External Record:104	
Filter 🥥 🌩 🔇	Users Companies Groups Zones Doors Readers	Roles Timezones Muster Sites
Handhelds	Name	XPressFreedom Settings (optional)
Handheld 1	rdr_Onboard I/O Board Door 1	Freedom Name Freedom Board
Server Reader : DESKTOP-MU40SF7	Door	IP Address
	Onboard I/O Board Door 1 ~	TCPIP Port 80
	Profile	Success Value v 2
	Default	Enable Freedom Debug Relay Sense
	GUID	
Time to Read 2 Records: 0.00 second	e	
Readers	•	RFID Settings (optional)
dr Onboard I/O Board Door 1		RFID Reader
dr_Onboard I/O Board Door 1 Entry	External Muster Reader	Mode v Trend
dr_Onboard I/O Board Door 2 Exit dr_TelaerislOBoard Entry Door	· · · · · ·	Antenna Port 1 🖨 Same Zone
dr_TelaerislOBoard Exit Door	Create Reader Credential	No Associated Reader
		IDScan
		Upload ID Scan License Clear
	Add New Delete	Save Cancel
Time to Read 5 Records: 0.00 second	Add New Delete	Gave Galicel

Users

Here is an example of a properly synchronized user:

XPressEntry Users



XPressEntry will pull the user's image and badge number from MaxPro. You can see the badge number at the bottom of the screen.

MaxPro Users							
\equiv Customers							
All Customers / Telaeris Inc_Demo							
Telaeris IncDemo	Ē	People	⊕ ₫	Tim MacDonald		🖉 Edit	
B Customer Overview		Q Search	≡↓	6			
a Customer Overview		11 People		Profile Permissions			
E Sites	2	David Carta Regular Employee		User Details			
Site Operators	1	1 Credential		Last Name*	First Name*		
📅 Schedules & Holidays	3 1	Tim MacDonald		Display Name	Email		
Permission Groups	4	Elizabeth Warren					
Unassigned Cards	0	1 Credential		User Status*			
	11	Jasmine Lee		Active			
ቶች People	**	1 Credential		Additional Information			
		Gerard Garrod		User Type	UserID		
		1 Credential		Select			
		Subha Thonakkod		Phone	Label One		
		1 Credential					
		Sreejith Kalariparambath		Label Two	Notes		
		Regular Employee 1 Credential					

User Permissions

Users in XPressEntry have the same permissions to each reader as they do in MaxPro.

XPressEntry User Permissions

🜉 XPressEntry - 3.5.6564 - Telaeris (Logged In User: Administrator, Company) —							
5 File 👭 Tools 🛞 View 🔌 Logout 🍥 Entry	it 😥 Muster	😢 Нер					
Entry/Exit Muster Events Activity History Messages Add/Edit Info Logs							
EntryExit Muster Events Activity History Messages AddEdit Info Logs Filter: Administrator, Company Atkinson, Garland Ayers, Tami Baker, Ricc Benjamin, Cody Benjath, Tilly Campos, Slas Caly, Bille Davd, Locla Frazier, Emma Giern, Maik Howell, Jodd Huang, Melssa Joann Rote, Adan Merrit, Theo Mora, Juliana Prineda, Leopoldo Rotem, Donant Rogas, Everly Rosales, Many Sanders, Erin Sawyer, Quinn Smith, John Smith, John Smith, John Smith, John Smith, John Smith, John	s Users M Companies & Groups M Zones Doors I Iser Permissions Contact Info UDFs/Misc Access Groups ALAccess Group B Direct Zone Permissions Cone Name Alcowed Times O Timezone Start EndTime Mon Tue	Add User to Group Allow User to Zone Allow User to Timezone V					
Time to Read 42 Records: 1.00 seconds	Add New Delete Save	Cancel					
0 Unread Messages Service Running Locally							

Groups

\equiv Customers								
All Customers / Telaeris IncDemo								
Telaeris IncDemo	T People			Tim P	MacDonald			
B Customer Overview	Q Search 11 People			Profile	Permissions			
Sites	2 2	David Carta		PIONE				
Site Operators		Regular Employee 1 Credential		123345235 Card	•			
Schedules & Holidays	3 1	Tim MacDonald		Active				
-	- N	1 Credential	P	ermissions				
Permission Groups	4	Elizabeth Warren 1 Credential		ermission Group*				
Unassigned Cards	0	Jasmine Lee		All Area + 1 More	^			
XA People	11 🔤	1 Credential		Q Search				
		Gerard Garrod		All Area All Door Access				
				No Door Access				
	6	Subha Thonakkod Owner 1 Credential		Randolph				
		Sreejith Kalariparambath		Employee	~			
	- 2	Regular Employee 1 Credential		No. of Uses				
		Harriett Simpson		tivation Date*		Expiry Date		
		Regular Employee 1 Credential		02/28/2024		NEVER		
		Amelia John	S	atus				
	LA	Regular Employee 1 Credential		Active	~			
Eile Tools 🛞 Viev		Entry/Exit 🕅 Must	er				Help	
Entry/Exit Muster Events Activity History								
Filter:		Name	panies e Groups	Zones Doors	🔲 Readers 🐁 Roles 👩	ninezones er musiel siles		
All Access Bus Access		All Access						
Group A Group B		S Default Gro	S Default Group Group Allows Reader Login					
No Access		Readers Zones	Holidays					
		Readers		Sele	ected idheld 1			
		Handheld 1 Handheld 2		Han	idheld 2 ver Reader : PELICAN			
		Server Reader : P	ELICAN					
		Timezones						
	to Read 5 Records: 0.04	Add New	Delete	Save	Cancel			
lime								
	0 Unread Message	S			Serv	ice Running Locally		

MaxPro Card Access Rights

Access Groups are mapped to Groups. Readers are included in each group according to the readers assigned for each Access Group.

MaxPro Access Levels

\equiv Customers							0 4 0
All Customers / Telaeris IncDemo							
Telaeris IncDemo		Permission Group	\oplus \blacksquare	All Door Access			🖉 Edit
		Q Search	≡↓	Overview People			
E Customer Overview		4 Permission Groups		Area/Permission Group Name*	Site*		
T Sites	2	All Area 7 People		All Door Access	Select All		
Site Operators	1	All Door Access		Shared Permission Group			
Schedules & Holidays	3 1	5 People 4 Door(s)					
Permission Groups	4	No Door Access O People 4 Door(s)		Has access to: 4 Door(s) selected.			A.K.
🕞 Unassigned Cards	0	Randolph		Location	Enable	Always On	
		1 People 4 Door(s)		👻 San Diego	Enable	Always On	
People	11			Door 1	 Enable 	Always On	
				Door 2	 Enable 	Always On	
				Door 3	Enable	Always On	
				Door 4	Enable	Always On	

Configuring XPressEntry Using MaxPro Data

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

In the XPressEntry system, editing of any external data is **disabled by default**. To enable the settings, go to **XPressEntry Settings > General Tab > 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				
☐ General Mad / Zetit Display Badges RiD User Defined Fields Muster Settings Question Setup Logging Client Settings Wiegand Format Data Server Service Settings Database Database Database Database Database Database Database Clast Manager Software Event Viewer Redder Profiles Handheld Functionality Reader Validations Passwords Badge Settings Custom Display Validation Colors Doors Trend Settings Musters Alert Settings Favilies Settings Twilio Alerts	General Show Badge Types Form Show Wistor Pre-Registration Form Show RFID Form Show Muster Sites Form Show Timezones Form Show Muster Sites Form Show Holdays Form Show Deleted Records in Add / Edit List 100 Pagination Size (Zero to Show All) External Data Show External Flag in Add / Edit List Show External ID in Add / Edit List Show Reader GuID Switching Show Reader GuID Switching Show Reader Timezones Badges Show Pradity Code Column In Badge Grid Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show Badge Defined Field 2 in Add/Edit Show Badge Defined Field 1 in Add/Edit Show GPS Coordinates in Doors Show GPS Coultma's in Activity History			
	Sa	ave	Can	cei

XPressEntry External Data Settings

Configuring 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 MaxPro can use AccessAreas assigned in MaxPro as zones.

XPressEntry Doors

- 1. **Zones** For each door, set the **start** zone and **end** zone in **MaxPro**. This will "enter" a user in the specified zone when they enter or exit (or scan at a MaxPro door).
- 2. **External Readers** The External Entry Reader is automatically set to the **Reader** that is created from the **door**.

There should be a door in XPressEntry for **each** physical station that an employee will have a handheld.

Doors can also be added for each of the physical 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.

Configuring Readers

In XPressEntry's MaxPro 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 MaxPro if that option has been set in the Data Manager.

- 1. If XPressEntry is configured to "push" activities, they will appear in the **MaxPro Software**.
- 2. 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 MaxPro 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.

Note: We cannot receive live badge scans or user updates from MaxPro. We must set a **sync timer** for pulling badge scans from MaxPro, so XPressEntry can pull scans every 1 or 2 seconds. For user updates, we need to use **full sync** or single table sync.

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