

XPressEntry / Avigilon Unity Access

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For use with the XPressEntry Mobile Access Control System

By



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Telaeris, Inc. 4101 Randolph Street San Diego, California 92103 United States of America

(858) 627-9700

www.telaeris.com

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Purpose

This document is intended to instruct system administrators on how to synchronize an XPressEntry system with the Avigilon Unity Access (ACM) access control system.

Requirements

It is assumed that a version of Avigilon ACM and XPressEntry are installed on computers or virtual machines that can talk to each other the same computer or virtual machine. To install XPressEntry, you should have Administrator privileges on its respective machine. You should additionally be an Administrator or super user in the Avigilon Unity Access (ACM) system.

- 1. XPressEntry 3.5+
- 2. ACM Version 6.0+ (including Unity Access)
- 3. Windows 7 / 8 / 8.1 / 10 or server type equivalent
- 4. Avigilon Reader Licenses
- 5. Collaborations: Events Generic XML
- 6. REST API

Overall Order of Operations

- 1. Setting up Unity Access (ACM) to Synchronize with XPressEntry
- 2. Enabling Data Manager Synchronization in XPressEntry
- 3. Configuring XPressEntry Using Avigilon Unity Access Data

Setting up Unity Access to Synchronize with XPressEntry

It is assumed that Avigilon Unity Access is installed on a server. XPressEntry has been tested with Avigilon ACM Versions 6.0+. Please contact Telaeris to confirm compatibility with integrations into other versions of ACM.

Create Event Push Collaboration



Set up a Collaboration for an Event Push. This engages two features:

- 1. Provides badge scans live in XPressEntry
- 2. Changes to **Identities** come in live to XPressEntry (i.e., changing a name, validating a badge, access, etc.)

Access Control Manager	0 0- L-
' Monitor ▼ Indentities ▼ Int Reports ▼ Int Physical Access ▼ La Roles ▼	
Collaboration: Edit	
Name: Event Push Appliance: Avigion-vm Type: Events - Ceneric XML V Partitions:	
East Coast West Coast - Host: 10 10.245 11 Port Number: 5544	
Save 💥 Cancel Changes	

To create an Event Push:

- 1. Add Collaboration
- 2. Set Name as **Event Push**
- 3. Select Collaboration Type as **Events Generic XML**
- 4. Input the Host IP this will be the **XPressEntry host IP**
- Add a Port Number the number <u>must match</u> in the Avigilon Data Manager setup in XPressEntry and in the Avigilon Access Control Manager.
 - a. Ensure the firewall is open
- 6. Navigate to the **Events** tab on the Event Push and ensure **User Audit** and **Valid Credential** are selected.

Sync Historical Activities

We will now set up the Avigilon Appliance. Go to the wheel at the top right of the access control manager and select **Setup & Settings > Appliance**.

avigil	on I	Access Con	trol Mar	nager		
∰ Monitor • 🖬	Identities 👻	III Reports 👻	Phys	ical Access 👻	L Roles	•
ppliance:	Edit					
Appliance Access P	orts Replication	Backups Log	s Softwa	re Update SSL C	ertificate Abou	A
Appliance Name: System Name:	Avigilon-vm avigilon-vm			APE	Uptime:	Appliance Shutdown Appliance 5 days 3 hours 59 minutes 38 seconds
Host Name: Name Server:	avigilon-vm 10.10.1.3			Max Stored T	Set Date/Time	1000000
Time Server:	America - Los Angeles v Hot Standby Enable Remote TCP/IP Management			Max I Har Web	Days Stored: rdware Type: Server Port:	Professional V 443
Authorization Code: Splunk URL:				Alarm G Edge LDAP C	ateway Port:	
				Transactions C Mercury	onnect Port:	1670
						Mercury Require Certificate

Server:	avigilon ad telaens.com	
Port:	443	
User:	admin	
assword:		
6	☑ Verbose API Data	E1 000 300
6 ML Events	Port 2544	E1 04 33
ML Events	Verbose API Data Pot 5544 Doon From Area Offste	E1 08 33
ML Events	Verbose API Data Pot 2544 Doors From Area Offsite Doors To Area	
GML Events	Verbose API Data Pot 2544 Doon From Area Offste Doon To Area San Diego Onste	

- 1. Define the Transactions Connect Port
 - a. This is used to pull **historical activities** from Avigilon
 - b. <u>Must match</u> in Avigilon Data Manager Setup
- 2. The database in Avigilon Data Manager must be **TransactionDB**.
- 3. Server will be your Avigilon server or server IP.

Real-Time Events in Avigilon

Badge Scans

Once a Full Sync is run in XPressEntry and the data manager is successfully setup, you will see badge scans from the XPressEntry handheld devices or Avigilon readers populate in real-time under **Monitor > Events**.

Mor	nitor 💼 Idei	ntities 🗸 🔒 🔒 Report	ts 🔹 👔 Physica	al Access 👻 🎜	Roles +		
Event	ts Search	Alarms Verificatio	n Dashboard	Maps Intrusion	Status		
ause	Clear Live Video	Recorded Video	es Instructions I de	nity History Sau	Settings Select (olumos	
10.000	CONTRACTOR AND INCOME.	A CONTRACTOR AND A CONTRACTOR	too International Inter	starty [thoseny] Obee	octanigo october	South 110	
ion	Priority	Panel Time	Event Name	Source	Last Name	First Name	Internal Token No
on	Priority	Panel Time 03/11/2024 16:33:34	Event Name	Source WestCoast In	Last Name Dagohoy	First Name Allen	Internal Token No 930
on	Priority 100 100	Panel Time 03/11/2024 16:33:34 03/11/2024 16:33:28	Event Name Local Grant Local Grant	Source WestCoast In WestCoast In	Last Name Dagohoy Rivers	First Name Allen Caleb	Internal Token N 930 717
on	Priority 100 100 100	Panel Time 03/11/2024 16:33:34 03/11/2024 16:33:28 03/11/2024 16:33:19	Event Name Local Grant Local Grant Local Grant	Source WestCoast In WestCoast In WestCoast Out	Last Name Dagohoy Rivers Rivers	First Name Allen Caleb Caleb	Internal Token N 930 717 717



Occupancy pulled is based off **live events/activities** in Avigilon and how the **doors** are set up in Avigilon.

Server:	aviglioh.ad.telaerts.com	
Port:	1670	
Database:	TransactionDB	
lsemane:	admin	
Password:		

Identity Updates

Any changes to **user data** in Avigilon also update in XPressEntry. In the example below, you will see how changing the last name of a badge holder identity in **Avigilon** also updates the last name of the badge holder in **XPressEntry** > **Add/Edit Info**.



Set up Areas + Doors

Doors and **Areas** are set up in the **Physical Access** section of the Avigilon Access Control Manager. Please refer to the <u>Avigilon ACM setup documentation</u> on how to set these items up.

			a	VIG		cess Control Ma	nager				e o	1 -	
				Monitor •	- dentities - de	Reports 👻 📳 Phy	sical Access	Roles					
			D	loors T	emplates Panels Are	as EOL Resistance	Mercury LED M	odes Gard Formats	Events	Global Actions Global Linkages			
			Do	ors						Add Door Legend Advanced Fil	ters: 0 Override	<u>es. 0</u>	
			Doo	r Action +	Door Mode + Forced +	Held + Installed +	Delete Overn	de 🖑		avigilon" /	Access Contr	rol Manager	
						Device Status		Avigilon-vm		Monitor - Maldentities -	Reports +	Physical Access	L'Roles -
avia	GILO	n° I	Access Co	ntrol Ma	nager				Doo	Doors Templates Panels	reas EOL Re	sistance Mercury LE	ED Modes Card Formats
渣 Monitor	• 🖾 Iden	tities +	It Reports -	Phy	vsical Access	•			Unk	Area: Edit			
Doors	Templates	Panels	Areas EOL	Resistance	Mercury LED Modes	Card Formats Even	ts Global Actions	Global Linkages	Opt				
Aroas									Unk	Name: San Diego Onsi	te		
Aleas								N	Uni	Appliance: Avigilon-vm			
T AUG AIG								18		Maximum Occupancy: 20	2 E	Enable Area	
Name	Appliance	Enabled	Door Count	Delete						Log Min Reached:	□ 2	-Person Control	
San Diego Onsite	Avigilon-vm	Yes	3	-						Partitions: +			
Offsite	Avigilon-vm	Yes	1	-						East Coast West Coast -			
Outside	Avigilon-vm	Yes	0	-						Doors In	1	Doors Out	
Building	Avigilon-vm	Yes	0	-						WestCoast In ~ XPE Test Door 1	W	/estCoast Out +	N
Lab	Avigilon-vm	No	0	-								4	he.
🚔 Add Area	de Cre	ate New Re	eport							Save Save Cancel Changes			

Door Permissions

- 1. Ensure there are two doors for each area (one representing IN and one representing OUT)
- 2. Under **Door > Operations** assign whether this door represents the entry or the exit of a defined area. See below pictures for important fields to set.

CVIGILON Access Control Manager	OVIGILON Access Control Manager
☆ Monitor • ☆ Identities • ↓ Reports • ♀ Physical Access ↓ Roles •	🐮 Monitor • 🏫 Identities • 🍶 Reports • 📓 Physical Access 👫 Roles •
Doors Templates Panels Areas EOL Resistance Mercury LED Modes Card Formats Events Global Actions Global Linkages	Doors Templates Panels Areas EOL Resistance Mercury LED Modes Card Formats Events Global Actions Global Linkages
Door: Edit Parander: Operations: Hardware Cameras Interfoces Events Access Transactions	Door: Edit Paraneter: Operations: Hardisare Cameras Interfocies Events Access Transactions
Name: EastCoast In Partitions: actions: EastCoast Vest Coast Vest Coast Panel: East Coast Bidg 1 Panel: East Coast Bidg 1 Vendor: Mercury Security Vendor: Mercury Security	Name: EastCoast Out Partitions: Alt Name: East Coast Location: Panel: Appliance: Anglon ver vi Vendor: Mecory Security vi
APB Mean APB Detary: Held Pre-Alarn: 5 Unit Area: East Coss Euklary: Out of area: Cont Care PIN Threeout: Strike Mode: Cut short when open v Extended Access: 10 Strike Mode: Cut short when open v Extended Held Open Time: 60 Strike Mode: Cut short when open v Extended Held Open Time: 60 Strike Mode: Cut short when open v Extended Held Open Time: 60 Strike Mode: Cut short when open v Extended Held Open Time: 60 Strike Mode: Cut short when open v Strike Mode: Cut short when open	Installed Card Formats APB Mode: LED Mode: LED Mode: Available Members Available Medi Members Access Ime Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Extended Heid Open Time: Go Medi Cut short when open Kentende Available Medi Cut short when open Exte
Simple Macros Type Schedule Op Type Output Commands V 24 Hours Active V V Sec Macro	Simple Macros Type Schedule Op Type Output Commands v 24 Hours Active v v Sem Macro

Enabling Data Manager Synchronization in XPressEntry

XPressEntry uses a module called **Data Manager** to synchronize all data with Unity Access (ACM). From the main page of XPressEntry, go to **XPressEntry > Settings** (ALT+S or Tools > Settings).



Data Manager Tab

From the Settings page select the Data Manager Tab.

MPressEntry Settings		– 🗆 X
File Database SQL Import/Export		
P General Add / Edit Display	Type AVIGILON ACM	Add Remove
Badges RFID User Defined Fields Muster Settings	Name AVIGILON_ACM	Prefix
mister Settings Question Setup Logging Client Settings Wiegand Format Data Server Service Settings Database Database Database Software Event Viewer Reader Profiles Handhed Functionality Reader Validations Passwords Badge Settings Custom Display Validation Colors Doors Trend Settings ≡ Alert Settings Email Settings Twilio Alerts	AVIGILON_ACM - Prefix()	
		Sanity Check Data
		Save Cancel

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

Sync Timers

XPressEntry uses Timers to pull Avigilon Unity Access (ACM) Data into XPressEntry.

XPressEntry Settings File Database SQL Import/Export						- • ×
	🔎 🗹 Enable Data Manager	Type: AVIC	GILON_ACM	1		Setup Data Manager
General Add / Edit Display Badges	Sync Timers Sync Optio	ons				
RFID User Defined Fields Muster Settings		Disable S	Concurrent yncs			Send XPressEntry Activities Now
Client Settings	Download Activity Frequency			Set	Clear	Download Activity Now
Wiegand Format Data ∃ Server Service Settings	Occupancy Sync Frequency			Set	Clear	Occupancy Sync Now
Database	Partial Sync Update Frequency			Set	Clear	Partial Sync Now
AVIGILON_ACM Software Event Viewer Reader Profiles	Full Sync Update Frequency			Set	Clear	Full Sync Now
Handheld Functionality Reader Validations Passwords	Custom Sync Update Frequency			Set	Clear	Custom Sync Now
Badge Settings Custom Display Validation Colors Doors Trend Settings						
Email Settings Twilio Alerts	Data Manager Live Log View	Pause	Mirror Log To:			Browse
						Save Cancel

- 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.
- 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 Unity Access (ACM). 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	i Table Sync						-		×
	Add Table							Done	2
Table	USERS	✓ ✓ Partial?	3	Table	BADGES	~ 2	Partial?	8	20
Table	GROUPS_USERS	✓ ✓ Partial?	3						

Sync Options

M XPressEntry Settings			-	οx
File Database SQL Import/Export				
٩	Enable Data Manager Type: AVIGILON_AC	CM	Setup Dat	a Manager
⊟ General Add / Edit Display Badnes	Sync Timers Sync Options		-	
RFID User Defined Fields Muster Settings Question Setup Logging Client Settings Witegand Format Data	Pull DataManager Occupancy Default Outside Zone Pull Data Manager Activities into XPressEntry Pull Data Manager Push XPressEntry Activities to Data Manager	Event Processing Retry Cou Default Role DMPrefix Muster Scanned Users	nt <u>3</u>	~
 Servic's Settings Database Data Manager AVIGLON_ACM Software Event Viewer Reader Profiles Handheld Functionality Reader Validations Passwords Badge Settings Custom Display 	Send Activities Retry Count 3 Watch Tables via Software Events Cable Message Queue Message Queue Name \Private\$\DataManagerEvent Event Processing Loop Limit 10			
Validation Colors Doors Trend Settings	Clear Data Manager Settings	Clear External Da	ita	
Alert Settings Email Settings Twilio Alerts	Data Manager Live Log View Pause Mirror Log To			Browse
			Save	Cancel

- 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** Enables XPressEntry to push Scan data to Avigilon .
- 4. **Send Activities Retry Count** Number of times XPressEntry will attempt to resend an activity if it fails.
- 5. Watch Tables via Software Events Creates a live data connection to the Access Control System to watch for system changes.
- 6. Enable Message Queue Turns on Message Queue for software events to be used instead of database queue.
- 7. Message Queue Name Name of windows message queue for software events.
- 8. Event Processing Loop limit Max records to process from event queue.
- 9. Event Processing Retry Count Number of times XPressEntry will attempt to process a message queue event on failure.
- 10. **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.
- 11. **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.
- 12. Setup DataManager Button Opens Unity Access (ACM) specific settings.
- 13. Clear DataManager Settings Resets all settings on the two above tabs, as well as the Unity Access (ACM) specific settings.
- 14. **Clear External Data** Deletes all data synced from Unity Access (ACM) from the XPressEntry Database

Avigilon Unity Access Setup Page

Avigilon AC	M Data Manager Setup		-	\times
General Cu	istom Mapping			
Server: Port: User: Password:	avigilon.ad.telaeris.com 443 admin •••••• Validate SSL Certificate Vuse SSL Verbose API Data	PostGRE Transactions Connection Settings Server: avigilon.ad.telaeris.com Port: 1670 Database: TransactionDB Username: admin Password: ••••••••		
	Doors From Area Outside ~ Doors To Area Main Lobby ~	Partial Sync Modified Identities Use Local Grant for Activity Success		
Status	Lect Defaults OK			

- 1. Server IP address of the system where Avigilon server is hosted.
- 2. User Avigilon admin username
- 3. **Password** Avigilon admin user password
- 4. **XML Events Port** This port number must match what is listed in the Collaborations Events Push XML within the Avigilon access control manager.
- 5. **Partial Sync Modified Activities** Check this to ensure a partial sync will use a last updated date to grab any identities that were modified since they were last pulled.
- 6. PostGRE Transactions Connection Settings
 - a. Server IP address of the system where Avigilon server is hosted.
 - a. **Port** This is used to pull historical activities from Avigilon. It must match what is defined in the **Transactions Connect Port** field under **Appliance** in the Avigilon access control manager.
 - b. **Database** Must be TransactionDB

Click **Test Connect** after entering all the data correctly. This will connect to the Avigilon Unity Access (ACM) system using the given username and password.

The result will display **Connection Success!** if connected to Avigilon 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.

Configuring XPressEntry Using Avigilon Unity Access Data

Now that XPressEntry has been synchronized with the Avigilon 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.

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 Avigilon can use Areas assigned in Avigilon as Zones.

Monitor •	Reports - Physical	Access L Roles				
Doors Templates Panels Are	eas EOL Resistance M	lercury LED Modes	Card Formats	Events	Global Actions G	Robal Linkage
oor: Edit						
arameters Operations Hardware Came	rae interlocks Events Ac	cess Transactions				
Name: EastCoast Out	Partitions:	-				
Alt Name:		West Coast +				
Location:	Panel:	East Coast Bidg 1 👻				
Appliance: Avigilon-um v	2.5					
Vendor: Mercury Security ~						
Installed						
				Card Fo	rmats	
APB Mode:	LED Mode	: 1 •	Available	Card Fo	rmats Membe	rs
APB Mode: V	LED Mode Heid Pre-Alarm	5	Available	Card Fo	rmats Membe 26 bit wiegand	rs
APB Mode: APB Delay: Into Area: Don't Care	LED Mode Held Pre-Alarm Access time when open	¢ 1 v ¢ <u>5</u>	Available	Card Fo	mats 26 bt wegand 34 bt wegand 37 bt HD10304	rs
APB Mode: APB Delay: Into Area: Don't Care Dut of area: East Coast Building	LED Mode Held Pre-Alarm Access time when open Standard Access Time	(1) (5) (10)	Available	Card Fo	Membe 26 bit wegand 34 bit wegand 37 bit HD 10304 35 bit Corporate Fi	rs ormat
APB Mode: APB Delay: Into Area: Don't Care Dut of area: East Coast Building • PUT Timeout: 0	LED Mode Held Pre-Alarm Access time when open Standard Access Time Held Open Time	t 1 v 5 5 c 10 t 30	Available	Card Fo	Membe 26 bit wegand 34 bit wegand 37 bit HE 10304 35 bit Corporate Fi 56 bit Avigion	rs ormat
APB Node: APB Delay: Into Area: Don't Care Dut of area: East Coast Building v PIN Timeout 0 PIN Timeout 0 PIN Attempts: 0	LED Mode Held Pre-Alarm Access time when open Standard Access Time Held Open Time Extended Access	c 1 v c 5 c 5 c 10 c 30 c 10	Available	Card Fo	Membe 26 bit wiegand 34 bit wiegand 37 bit HD10304 35 bit Corporate Fo 56 bit Aviglion	rs ormat
APB Mode: V APB Delay: Don't Care V Dut of area: East Coast Building V PIN Timeout: 0 PIN Timeout: 0 Strike Mode: Cut short when open V	LED Mode Heid Pre-Alarm Access time when open Standard Access Time Heid Open Time Extended Access Extended Heid Open Time	1 • 5 5 6 10 6 30 6 10 4 60	Available	Card Fo	Membe 26 bit wegand 34 bit wegand 37 bit HD10304 35 bit Corporate Fr 56 bit Aviglion	rs
APB Mode: APB Delay: Into Area: Don't Care Dut of area: East Coast Building PIN Timeout: 0 PIN Attempts: 0 Strike Mode: Cut short when open v	LED Mode Heid Pre-Alarm Access time when open Standard Access Time Heid Open Time Extended Access Extended Heid Open Time	t 1 v t 5 c t 1 0 c	Available	Card Fo	Membe 26 bit wegand 34 bit wegand 37 bit HD10304 36 bit Corporate Fi 56 bit Aviglion	rs ormat
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APB Mode: APB Delay: Into Area: Don't Care Dut of area: East Coast Building v PIN Timeout 0 PIN Timeout 0 Strike Mode: Cut short when open v Type Schedule	LED Mode Heid Pre-Alarm Access time when open Standad Access Time Extended Access Extended Access Extended Heid Open Time Simple Macros Op Type Output		Available	Card Fo	Membe 26 bit wegard 34 bit wegard 37 bit HID 10304 35 bit Coprate Fi 56 bit Avigion	ormat -
APB Node: APB Delay: Into Area: Don't Care Dut of area: East Coast Building v PIN Timeout 0 PIN Timeout 0 Strike Mede: Cut short when open v Type Schedule	LED Mode Heid Pre-Alarm Access time when open Standard Access Time Heid Open Time Extended Access Extended Heid Open Time Simple Macros Op Type Output		Available Commands	Card Fo	Membe 26 bit wegard 37 bit wegard 37 bit HPI 1030 35 bit Avigion	ormat

- 1. **Zones** For each door, set the **start** zone and **end** zone in **Avigilon**. This will "enter" a user in the specified zone when they enter or exit (or scan at an Avigilon door/panel).
- 2. External Readers The External Entry Reader is automatically set to the **Panel** that is associated from the **door**.
 - a. If no panel is associated, default to a respective XPressEntry handheld reader.

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 Avigilon 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 Avigilon if that option has been set in the Data Manager.

- 1. If XPressEntry is configured to "push" activities, they will appear in the **Monitor** section of the **Avigilon** access control manager.
- 2. If XPressEntry is configured to "pull" activities, the **occupancy** within XPressEntry 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 Avigilon activities to determine who is on and who is off site.
 - 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/zones people are in.

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