

XPressEntry

XPressEntry / Feenics 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 **Feenics** 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. Feenics Windows Client - <https://feenics.acre-co.com/kb/article/989-downloads/>
3. Feenics API
4. Outbound Access to keepapi.feenicshosting.com over port 443
5. Windows 8.1+ or server type equivalent

Setting Up Feenics to Synchronize with XPressEntry

It is assumed that a version of Feenics and XPressEntry are installed on computers or virtual machines that can **talk to each other**, or the **same** computer or virtual machine. Feenics can be accessed by the Windows Client, Web Client, or Mobile Application.

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

Order of Operations

1. Setup Feenics’ Data and Settings
2. Enable XPressEntry Synchronization
3. Set up XPressEntry Data

Setup Feenics’ Data and Settings

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

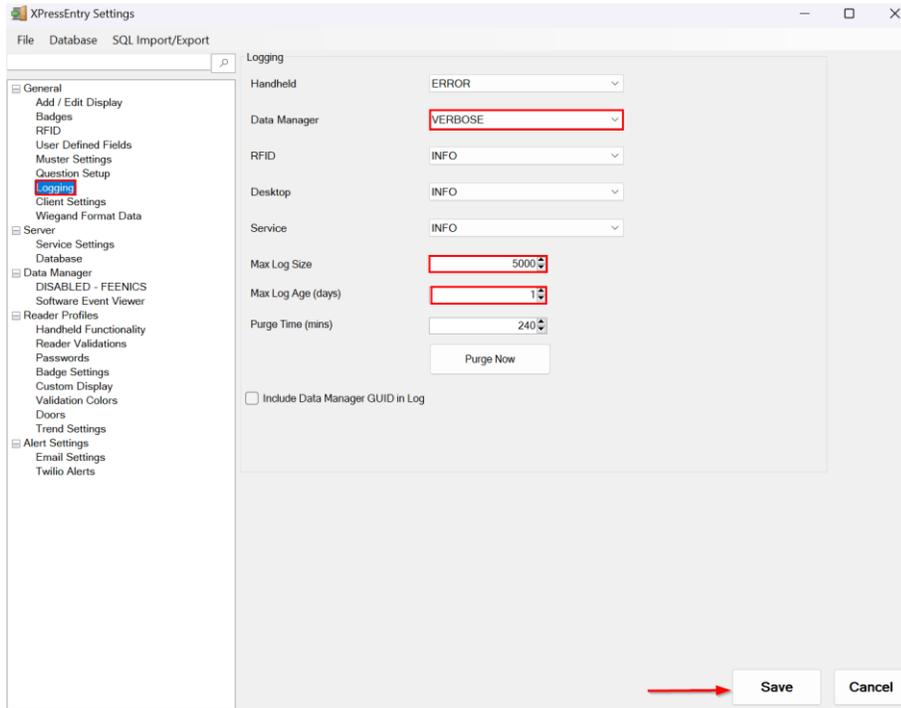
The screenshot displays the XPressEntry software interface. The title bar reads "XPressEntry (Administrator) - 3.5.6493 - Telaeris (Logged In User: Administrator, Company)". The main window features a menu bar with "File", "Tools", "View", "Logout", and "Muster". A "Settings" menu is open, showing options like "Handheld Status", "Reports", "Manual Enter/Exit Users", and "Add Handheld Wizard". The "Reports" option is highlighted with a red box. Below the menu, the interface shows "All Zones (Occupancy: 18)" with a list of users and their entry details. The "Activity Occurring in Last Day" section contains a table with the following data:

User	User Image	Time Stamp	Start Zone	End Zone	Door	Reader	Entry Granted
Spears, Zachery		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
Howell, Jodi		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
Villarreal, Herb		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
David, Leola		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
Atkinson, Garland		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True

The status bar at the bottom indicates "Activity | Occupancy | Partial | Full | Total Occupancy: 18 Inside 2 Zones | 0 Unread Messages | Service Running Locally".

General Tab

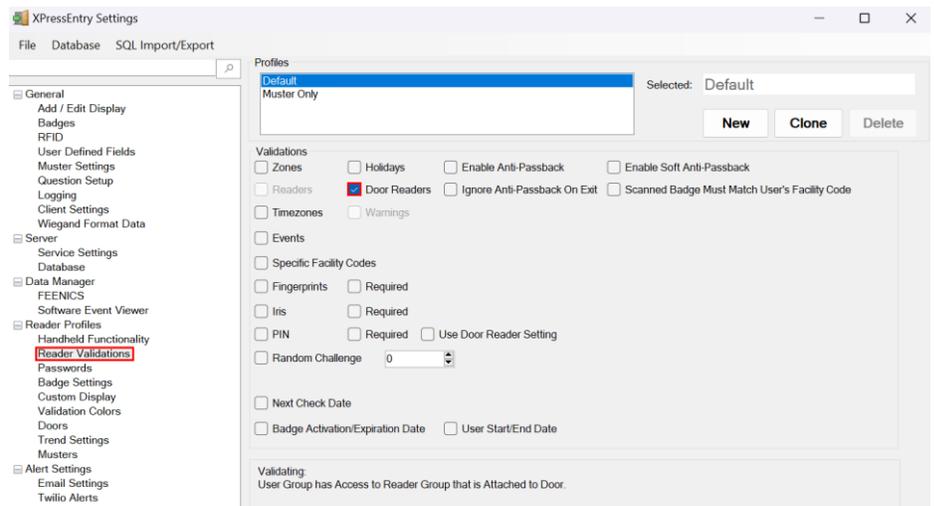
1. From the Settings page, select **General > Logging**.
2. Set the Data Manager Log level to **DEBUG** or **VERBOSE**
 - a. This will allow you to view log entries during the sync process.
3. Max Log Size – **5000** or higher
4. Max Log Age – **1 Day** or higher



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

Reader Profile Tab

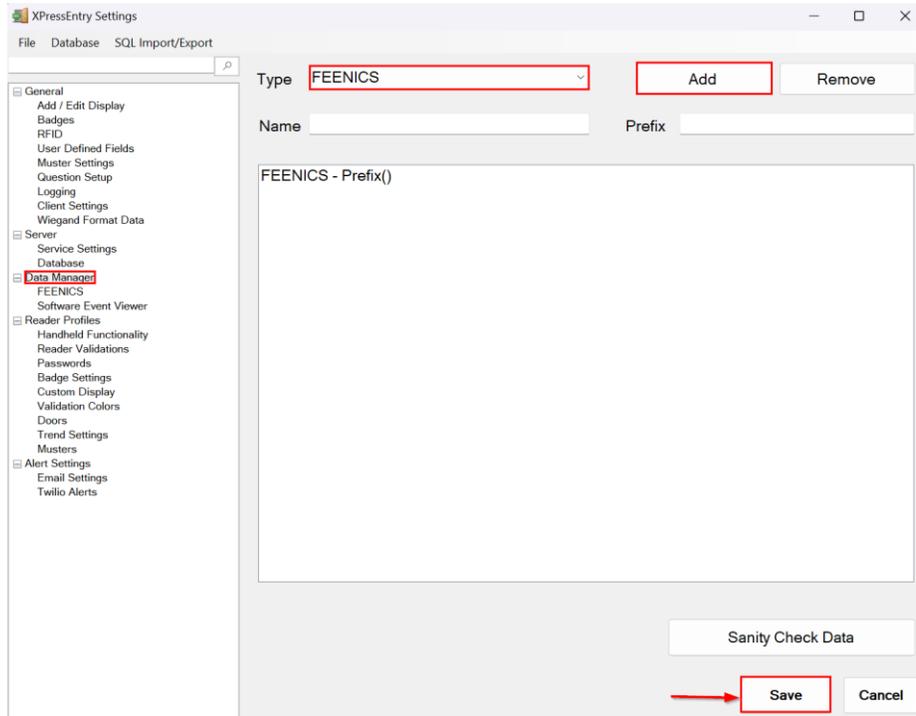
1. Go to **Reader Profiles > Reader Validations**. This is where you configure the handhelds.
2. Ensure that **Door Readers** is the only mode checked under **Validations**.
3. Select **Save** at the bottom right when finished.



Data Manager Tab

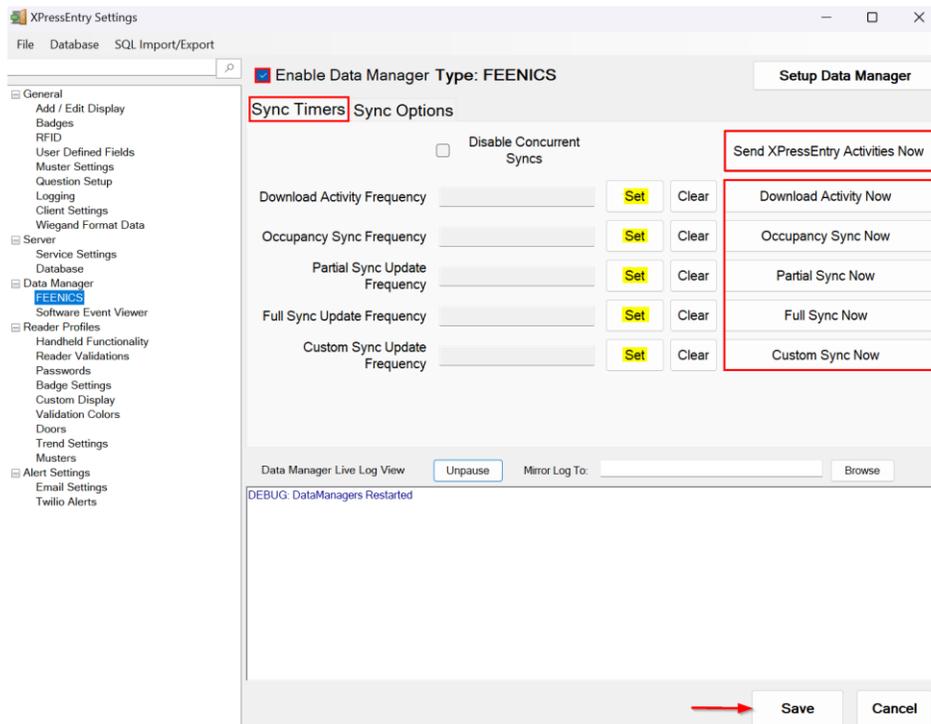
From the Settings page select the Data Manager Tab.

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

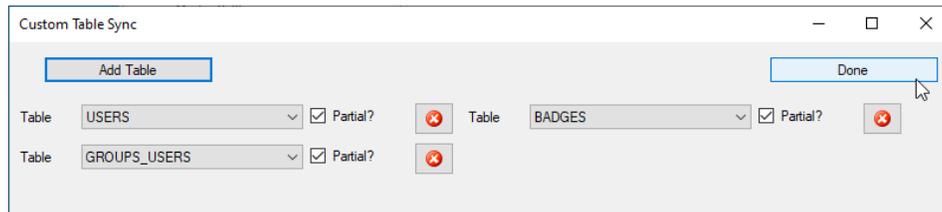


Sync Timers

XPressEntry uses Timers to pull Feenics data into XPressEntry.



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. It will only grab the last x number of users that were added to the system.
 - a. **Do** use this sync to quickly update any table in XPressEntry.
 - b. **Do** use this sync to quickly add a new user into XPressEntry from Feenics.
 - c. **Do NOT** use this sync to delete a user from XPressEntry who was deleted in Feenics.
 - d. **Do NOT** use this sync to update a user from XPressEntry who was changed in Feenics.
4. **Full Sync Update Frequency** – Updates all tables by pulling all necessary records from Feenics. 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**.



Sync Options

XPressEntry Settings

File Database SQL Import/Export

Enable Data Manager Type: FEENICS Setup Data Manager

Sync Timers Sync Options

Pull Data Manager Occupancy Event Processing Retry Count 3

Default Outside Zone Default Role

Pull Data Manager Activities into XPressEntry DMPrefix

Push XPressEntry Activities to Data Manager Muster Scanned Users never

Send Activities Retry Count 3

Watch Tables via Software Events

Enable Message Queue

Message Queue Name .Private\$\DataManagerEvent

Event Processing Loop Limit 10

Clear Data Manager Settings Clear External Data

Data Manager Live Log View Unpause Mirror Log To: Browse

DEBUG: DataManagers Restarted

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 Feenics.
4. **Send Activities Retry Count** – Number of times XPressEntry will attempt to resend an activity if it fails.
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.
6. **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 Data Manager Button** – Opens Feenics specific settings.
8. **Clear Data Manager Settings** – Resets all settings on the two above tabs, as well as the Feenics specific settings.
9. **Clear External Data** – Deletes all data synced from Feenics from the XPressEntry Database.

Feenics Data Manager Setup Page

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

1. **Base Address** – Feenics Server Base Address.
2. **Instance Name** – Feenics Instance Login Name.
3. **User Name and Password** – Feenics Operator User Name and Password.
4. **Verbose API Data** – Tick this if you want to log API data.
5. **Download Pictures** – Enabling this will download user images from Feenics. (Enabled by default)
6. **Pull People in Partial Sync** – Ticking this will pull customers from System Galaxy and map to XPressEntry as Companies.
7. **Create Doors** – Tick this if you want to create doors in XPressEntry out of the readers pulled from Feenics.
8. **Users Per Query** – Number of users pulled from Feenics in a single API call.

Click **Test Connect** after entering all the data correctly – this will connect to the Feenics access control system.

- **Connection Success!** will display if connected to Feenics successfully.
- Any **errors** in the connection 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 Feenics. Once the Feenics 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 Feenics **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 Feenics. For a quick setup, please navigate to the next section, **Set up XPressEntry Data**.

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

Feenics	XPressEntry
Reader	Reader
People	Users
Cards	Badges
Badge Types	Badge Types
Access Levels	Groups
Local Areas	Zones
Schedules	Time Zones
Holidays	Holidays

Readers

All Readers are available to view in the Readers tab under Add/Edit Info.

Here is an example of properly synchronized readers:

The screenshot displays the XPressEntry software interface. At the top, there is a navigation bar with icons for File, Tools, View, Logout, and Entry/Exit. Below this is a menu bar with options like Entry/Exit, Activity History, Messages, Add/Edit Info, and Logs. The main content area is titled 'External Record: FEENICS_63a04e65a8193544cae3e791'. On the left, there are two panels: 'Handhelds' and 'Readers'. The 'Readers' panel is highlighted with a red box and lists: Canteen IN, Reader Canteen OUT, Reader Main Office IN, and Reader Main Office OUT. The 'Handhelds' panel lists: Handheld 1, Handheld 2, and Server Reader: DESKTOP-G30M7MD. The main configuration area on the right contains fields for Name (Canteen IN), Profile, GUID, External Muster Reader, and External Muster Zone. There are also checkboxes for 'Is External Muster Reader' and 'Antenna Port'. The 'XPressFreedom Settings (optional)' section includes fields for Freedom Name (Freedom Board), IP Address, TCP/IP Port (80), Success Value (2), and checkboxes for 'Enable Freedom Debug', 'Relay Sense', and 'Enqueue Request: Key: DEFAULT'. The 'RFID Settings (optional)' section includes a dropdown for 'RFID Reader', a 'Mode' dropdown, and a checkbox for 'Same Zone'. The 'IDScan' section has 'Upload ID Scan' and 'Clear' buttons. At the bottom, there are buttons for 'Add New', 'Delete', 'Save', and 'Cancel'. The status bar at the very bottom shows 'Activity | Occupancy | Partial | Full | Total Occupancy: 0 Inside 0 Zones | 0 Unread Messages | Service Running Locally'.

Users

Here is an example of a properly synchronized user:

XPressEntry User

The screenshot displays the XPressEntry user management interface. At the top, there is a navigation bar with icons for File, Tools, View, Logout, and Entry/Exit. Below this is a menu bar with options like Entry/Exit, Activity History, Messages, Add/Edit Info, and Logs. The main content area is titled "External Record: FEENICS_638f3f79141bdef4832c05b6". On the left, a list of users is shown, with "Suttmiller, Alfonso" selected. The right side of the interface shows the user's details, including First Name (Alfonzo), Last Name (Suttmiller), MI, Company, Emp ID, Zone, and Role. There is also a photo of the user and a "Badges" table. The table has the following data:

Badge	Activated Date	Expired Date	Invalid	Badge Type
2002	19-12-2022	19-12-2024		

At the bottom of the interface, there are buttons for "Add New", "Delete", "Save", and "Cancel". The status bar at the very bottom shows "Activity | Occupancy | Partial | Full | Total Occupancy: 0 Inside 0 Zones | 0 Unread Messages | Service Running Locally".

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

Feenics People

The screenshot displays the Feenics People interface. At the top, there is a navigation bar with icons for Access Control, Access Configuration, General Configuration, Hardware Provisioning, Video Management, and Visitor Management. Below this is a menu bar with options like New Person, Batch People, People List, Event History, Live Monitoring, Visual Verification, Floor Status, Reports & Tasks, and Audit Log. The main content area is titled "People List in Telaeris" and shows a list of users, with "Suttmiller, Alfonso in Telaeris" selected. The right side of the interface shows the user's details, including First Name (Alfonzo), Last Name (Suttmiller), Address Information, and Phone Number. There is also a photo of the user and a "Badges" table. The table has the following data:

Badge	Activated Date	Expired Date	Invalid	Badge Type
2002	19-12-2022	19-12-2024		

At the bottom of the interface, there are buttons for "Save", "Save & Close", "Delete", and "Cancel". The status bar at the very bottom shows "Connected to Event Publisher".

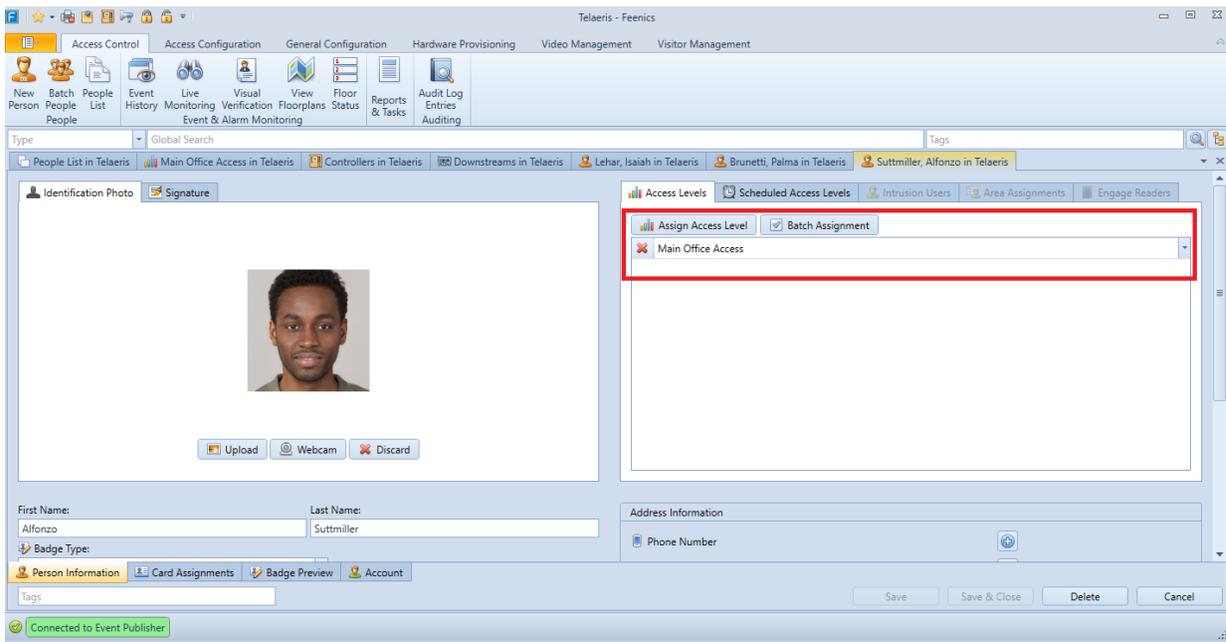
These users are seen in the **Cardholder Configuration** software in the Feenics.

User Permissions

Users in XPressEntry have the same permissions to each reader as they do in Feenics. This is regardless of whether the user is assigned an Access Code, Reader Group, or direct access to a Reader. However, the way in which the data is displayed is a little different.

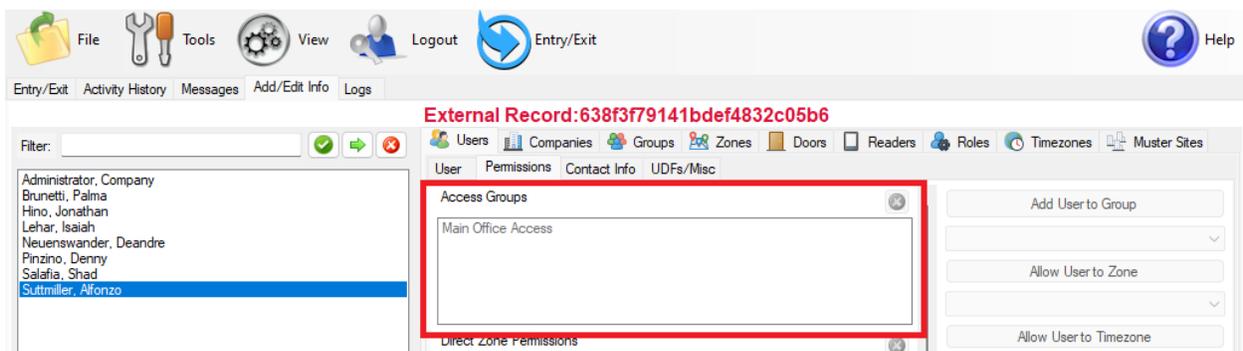
The following is an example of the permissions a user has in Feenics vs. how the data is displayed in XPressEntry.

Feenics Permissions

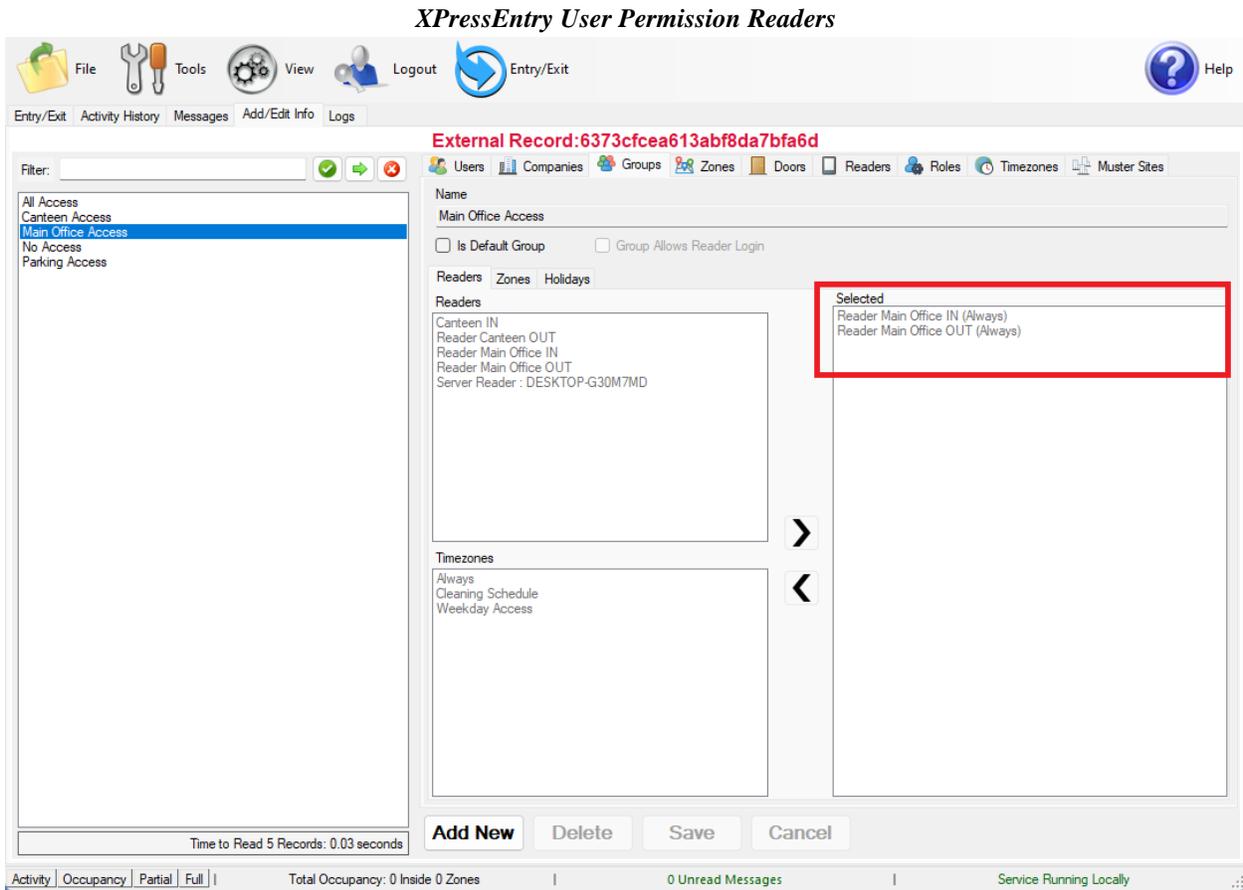


The **Main Office Access** Access Level has two readers assigned in the Access Level settings in the Feenics System Configuration as seen in the below image.

XPressEntry User Permissions



To see the readers user “Alfonzo Suttmiller” has access to, navigate to the **Groups** tab. Select **Main Office Access** from the list on the left.



Each user with assigned permissions in Feenics will have the same permissions in XPressEntry.

Groups

Feenics Access Level are mapped to Groups in XPressEntry.

Feenics Access Levels

Instance / Folder	Display Name	Escort Type	Access Level Entries	Elevator Access Level Entries	Activation Start	Activation End	Tags	Global Access Level
Telaeris	Canteen Access	None	0	0				<input type="checkbox"/>
Telaeris	Main Office Access	None	2	0				<input type="checkbox"/>
Telaeris	Parking Access	None	0	0				<input type="checkbox"/>

XPressEntry Groups

The screenshot shows the 'XPressEntry Groups' configuration window. At the top, there is a navigation bar with icons for File, Tools, View, Logout, and Entry/Exit. Below this is a menu bar with 'Entry/Exit', 'Activity History', 'Messages', 'Add/Edit Info', and 'Logs'. The main content area is titled 'External Record:6373cfcea613abf8da7bfa6d'. On the left, a list of access groups is shown, with 'Main Office Access' selected. The right side of the window contains configuration options for the selected group, including 'Name' (Main Office Access), 'Is Default Group', and 'Group Allows Reader Login'. Below these are sections for 'Readers' and 'Timezones'. The 'Readers' section lists 'Canteen IN', 'Reader Canteen OUT', 'Reader Main Office IN', 'Reader Main Office OUT', and 'Server Reader : DESKTOP-G30M7MD'. The 'Timezones' section lists 'Always', 'Cleaning Schedule', and 'Weekday Access'. A 'Selected' list on the right contains 'Reader Main Office IN (Always)' and 'Reader Main Office OUT (Always)'. At the bottom, there are buttons for 'Add New', 'Delete', 'Save', and 'Cancel'. The status bar at the very bottom shows 'Activity', 'Occupancy', 'Partial', 'Full', 'Total Occupancy: 0 Inside 0 Zones', '0 Unread Messages', and 'Service Running Locally'.

Zones

The Areas in Feenics are visible under **Add/Edit Info > Zones**.

Here is an example of properly synchronized Zones:

XPressEntry Zones

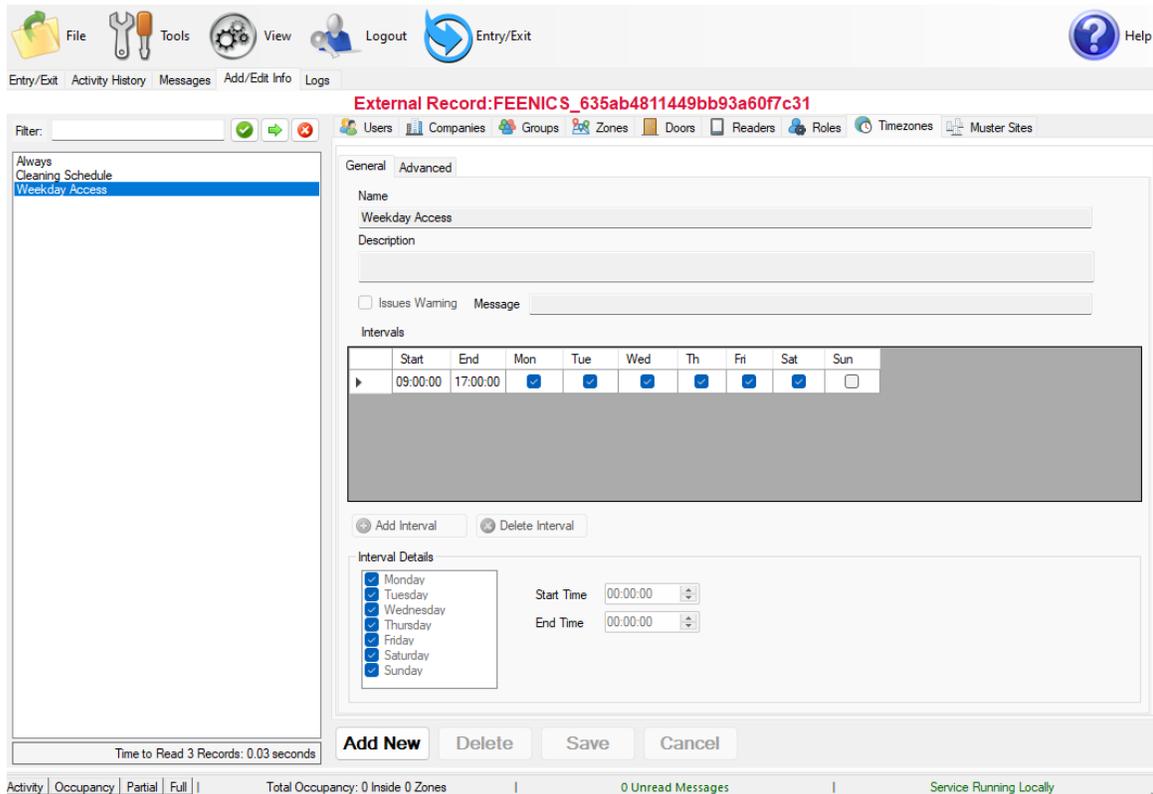
The screenshot shows the 'XPressEntry Zones' configuration window. The navigation bar and menu bar are identical to the previous screenshot. The main content area is titled 'External Record:FEENICS_6360fde5f26b241a0eed08c3'. On the left, a list of zones is shown, with 'Main Building' selected. The right side of the window contains configuration options for the selected zone, including 'Name' (Main Building), 'Description', and 'Parent Zone'. Below these are three checked checkboxes: 'Zone is Outside', 'Zone is a Muster Point', and 'Zone is a Hazard Area'. At the bottom, there are buttons for 'Door', 'Start Zone', 'End Zone', 'External Entry Reader', and 'External Exit Reader'.

Timezones

Timezones are pulled from Feenics **Schedules** into XPressEntry. Timezones are visible under **Add/Edit Info > Timezones**.

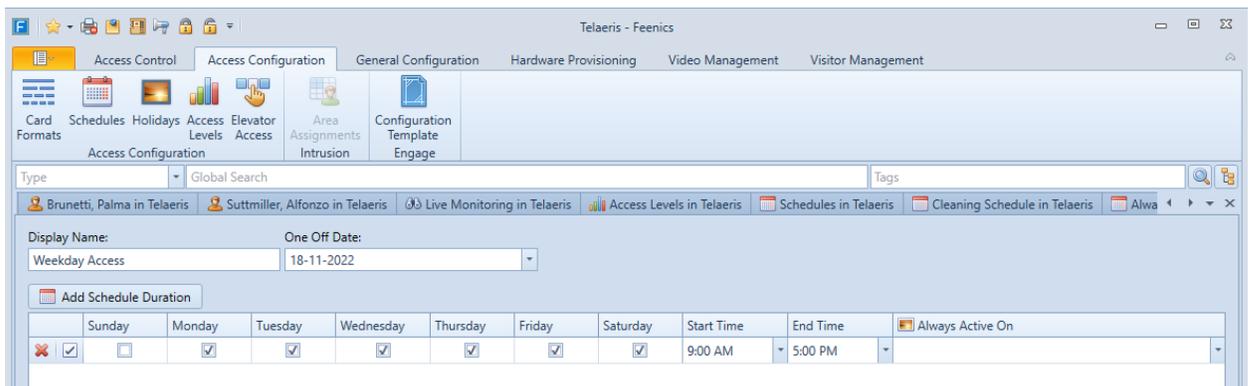
If a single Time Zone has multiple standard time ranges for different days of the week, XPressEntry will create additional intervals to support this. XPressEntry will also ignore the time zone intervals with same start and end time.

XPressEntry Timezones



The screenshot shows the XPressEntry Timezones management interface. At the top, there is a navigation bar with icons for File, Tools, View, Logout, and Entry/Exit. Below this is a breadcrumb trail: Entry/Exit > Activity History > Messages > Add/Edit Info > Logs. The main content area is titled "External Record: FEENICS_635ab4811449bb93a60f7c31" and contains a sidebar with a filter and a list of items: "Always", "Cleaning Schedule", and "Weekday Access". The "Weekday Access" item is selected. The main panel shows the "General" tab for this item, with fields for Name ("Weekday Access") and Description. Below these are checkboxes for "Issues Warning" and "Message". The "Intervals" section features a table with columns for Start, End, and days of the week (Mon-Sun). The first interval is defined from 09:00:00 to 17:00:00, with checkboxes for Monday through Saturday. Below the table are "Add Interval" and "Delete Interval" buttons. The "Interval Details" section has a list of days (Monday-Sunday) with checkboxes, and "Start Time" and "End Time" dropdown menus. At the bottom, there are "Add New", "Delete", "Save", and "Cancel" buttons. The status bar at the very bottom shows "Activity | Occupancy | Partial | Full | 1", "Total Occupancy: 0 Inside 0 Zones", "0 Unread Messages", and "Service Running Locally".

Feenics Schedules

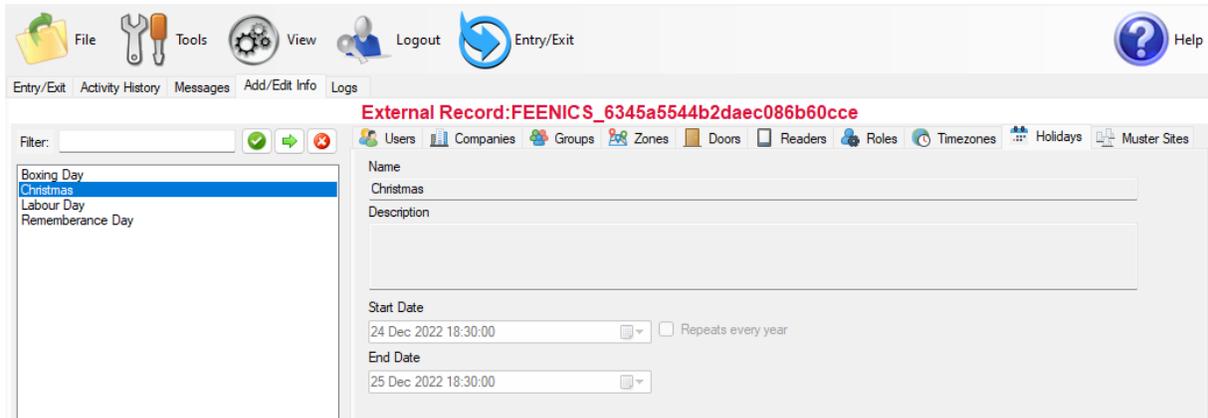


The screenshot shows the Feenics Schedules management interface. The window title is "Telaeris - Feenics". The top navigation bar includes "Access Control", "Access Configuration", "General Configuration", "Hardware Provisioning", "Video Management", and "Visitor Management". Below this is a sub-navigation bar with icons for Card Formats, Schedules, Holidays, Access Levels, Elevator Access, Area Assignments, Intrusion, and Configuration Template Engage. The main content area has a "Type" dropdown set to "Global Search" and a "Tags" field. Below this is a breadcrumb trail: Brunetti, Palma in Telaeris > Suttmiller, Alfonso in Telaeris > Live Monitoring in Telaeris > Access Levels in Telaeris > Schedules in Telaeris > Cleaning Schedule in Telaeris > Alwa. The main panel shows the "Display Name" as "Weekday Access" and the "One Off Date" as "18-11-2022". Below these are "Add Schedule Duration" and "Add Schedule" buttons. The main table has columns for days of the week (Sunday-Saturday), Start Time, End Time, and "Always Active On". The first row shows a schedule from 9:00 AM to 5:00 PM, with checkboxes for Monday through Saturday.

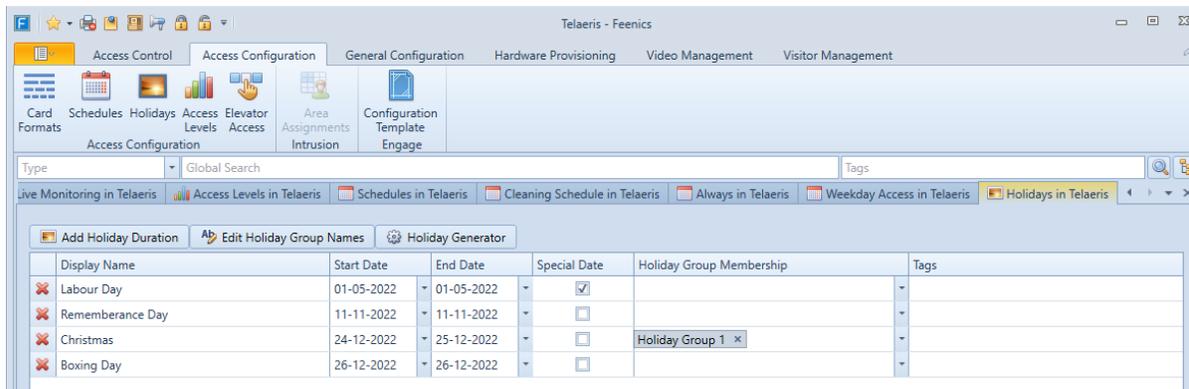
Holidays

All “Holidays” pulled from Feenics will be visible via **Add/Edit Info > Holidays**.

XPressEntry Holidays



Feenics Holidays



Configuring XPressEntry Using Feenics Data

Now that XPressEntry has access to the Feenics 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.

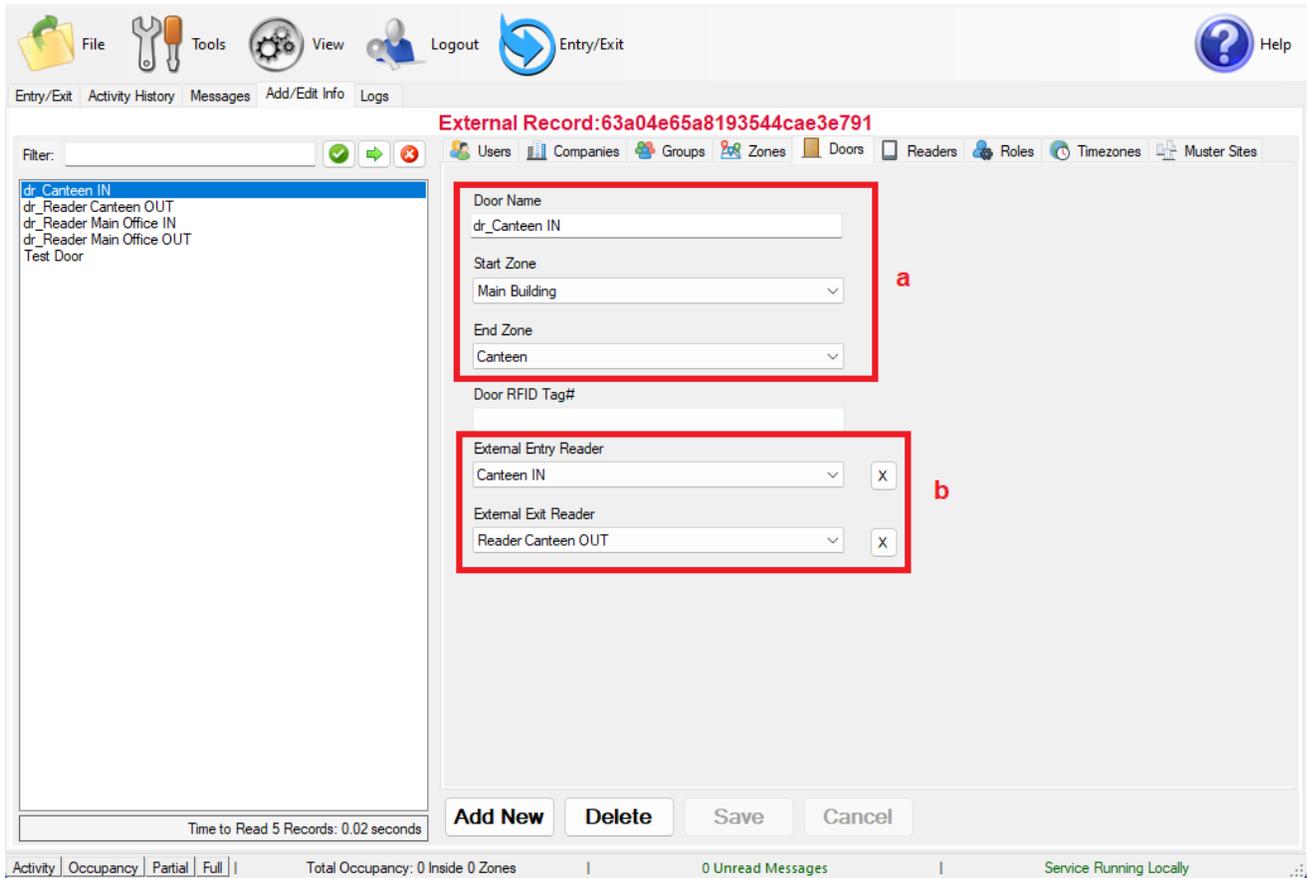
For **entry**, permission is based on the user’s access to the door’s **external entry reader**. For **exit**, permission is based on the user’s access to the door’s **external exit reader**.

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

The XPressEntry Integration with Feenics **does not require** additional start and end zones. However, XPressEntry can help keep track of what “zones” people are in if configured correctly.

A door is created in XPressEntry for each reader pulled from Feenics, as shown in the below image.

XPressEntry Doors



1. **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 a Feenics readers).
2. **External Readers** – Attach the logical entry and exit readers that you created in Feenics.

You may manually set up the doors in XPressEntry. There should be a door in XPressEntry for each physical station that an employee will have a handheld.

To create a door:

1. Select **Add New** at the bottom of the Doors tab form.
2. Enter a name that clearly describes what this door represents.
3. Select “Outside” for Start Zone and “Building” for End Zone.

4. Since each door is created based on a reader, the **External Entry Reader** will always be the Selected Reader. **External Exit Reader** is one of the Exit readers you created in Feenics.

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 > Add/Edit Display** then check the option **Allow Editing of External Data** in the **External Data** section.

External Data Settings

The screenshot shows the XPressEntry Settings application window. The left sidebar contains a tree view with categories like General, Server, Data Manager, Reader Profiles, and Alert Settings. The main area is titled 'General' and contains several sections of settings. The 'External Data' section is highlighted with a red box around the 'Allow Editing of External Data' checkbox, which is checked. Other settings in the 'External Data' section include 'Show External Flag in Add / Edit List' and 'Show External ID in Add / Edit List', both of which are also checked. The 'Readers' section has 'Allow Reader GUID Switching' checked. The 'Badges' section has 'Show External ID in Badge Grid' checked. The 'Users' section has 'Enforce Employee Badge # Uniqueness' and 'Enforce Strict Password' checked. The 'GPS' section has 'Show GPS Coordinates in Doors' and 'Show GPS Column's in Activity History' unchecked. At the bottom right, there are 'Save' and 'Cancel' buttons.

Readers

In XPressEntry's Feenics 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 Feenics if that option has been set by Data Manager.

If XPressEntry is configured to **push** activities, they will appear in **the Event and Alarm Monitoring** section in the Feenics software.

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:

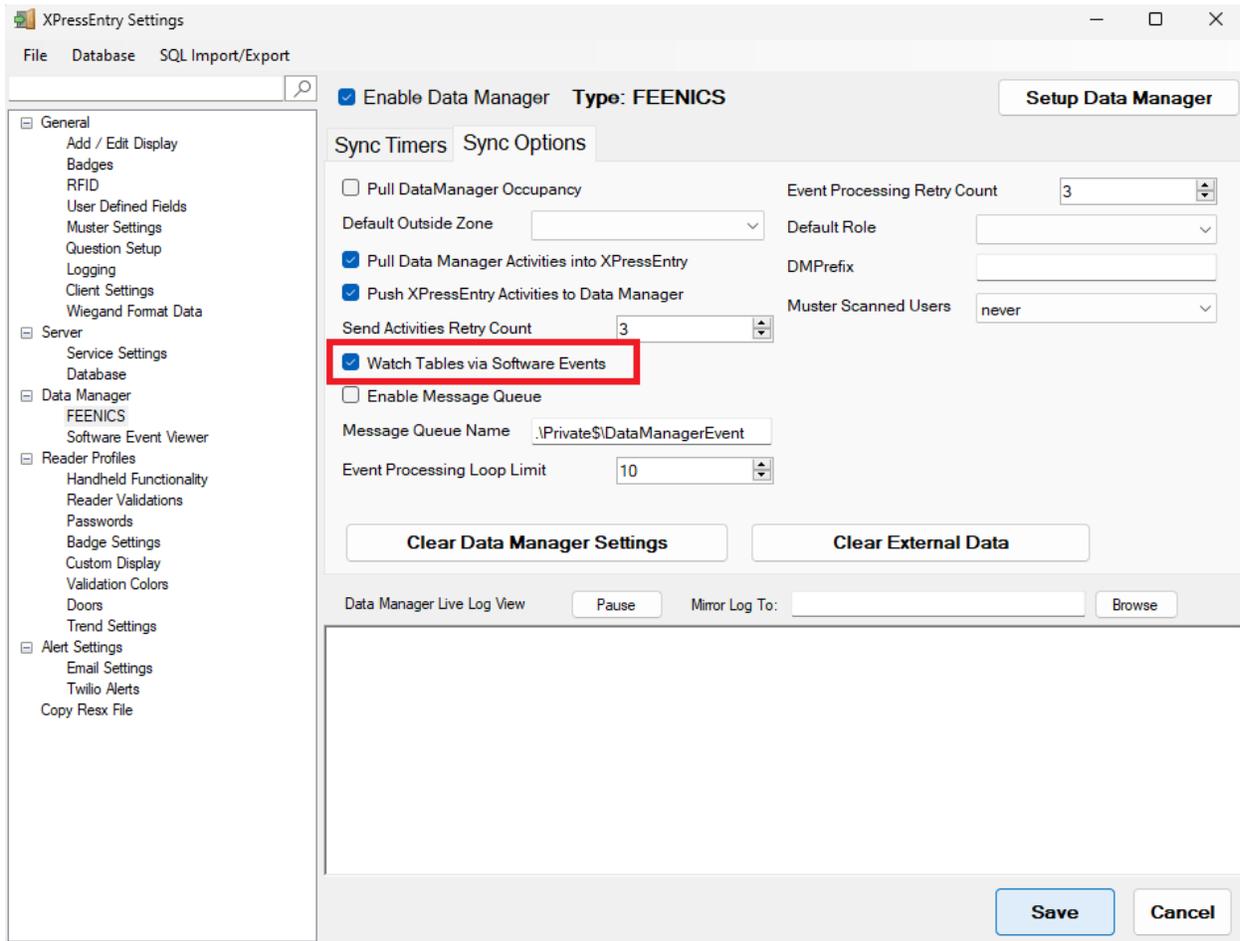
1. You want to use XPressEntry to manage **Emergency Evacuations**.
 - a. XPressEntry uses Feenics activities to determine who is on and who is off campus.
 - b. In the case of a mustering event, XPressEntry will have an up-to-date list of who is on site on this day.
 - c. Using this list, XPressEntry can be utilized to **muster** or mark people as safe and 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.

When Feenics is configured to **Watch Table via Software Events** in **Sync Options**, any live events changes in Feenics will be pulled into XPressEntry immediately.

Examples:

1. Live Activity Updates
2. People
3. Cards
4. Access Level
5. Time Zones Updates

Watch Feenics Live Events



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