

# ***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**).

XPressEntry (Administrator) - 3.5.6493 - Telaeris (Logged In User: Administrator, Company)

File Tools View Logout Muster Help

Entry/Exit M... Settings (Alt+S) Reports (Ctrl+R) Manual Enter/Exit Users Add Handheld Wizard

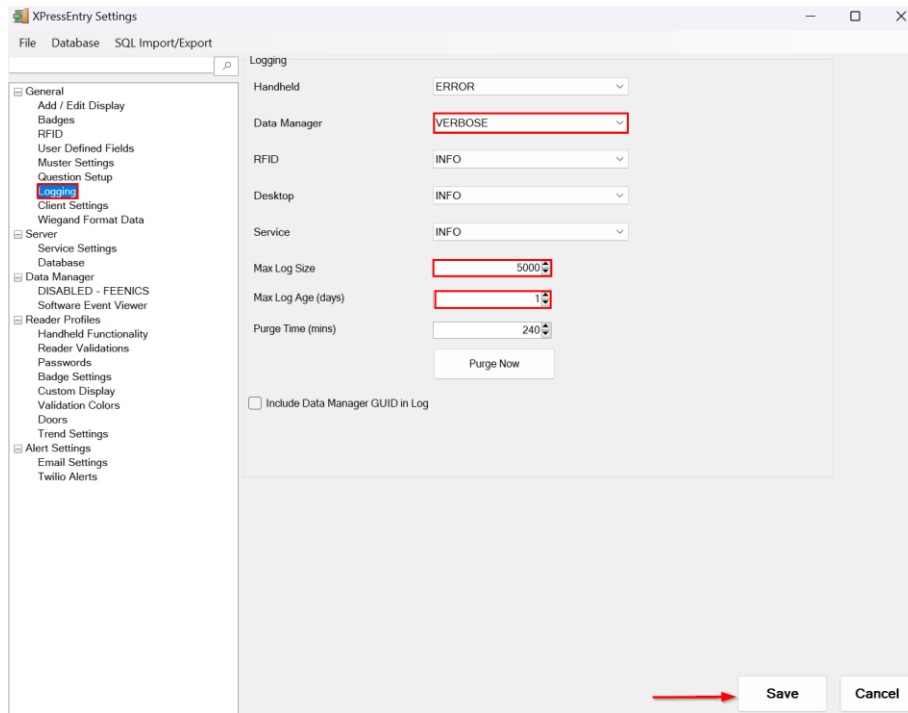
Filter: All Zones (Occupancy: 18) Current Occupants

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

Activity | Occupancy | Partial | Full | Total Occupancy: 18 Inside 2 Zones | 0 Unread Messages | Service Running Locally

## General Tab

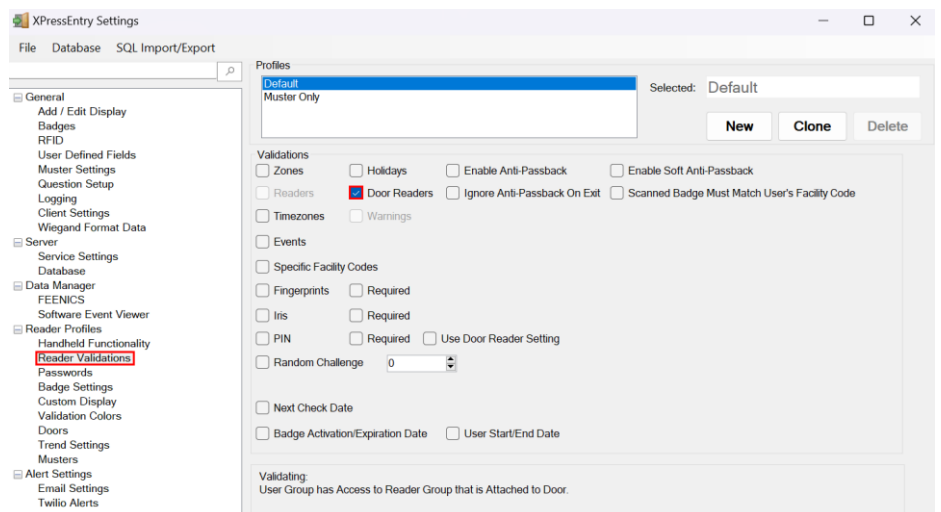
1. From the Settings page, select **General > Logging**.
2. Set the Data Manager Log level to **DEBUG** or **VERBOSE**
  - a. This will allow you to view log entries during the sync process.
3. Max Log Size – **5000** or higher
4. Max Log Age – **1 Day** or higher



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.

The screenshot shows the 'XPressEntry Settings' window with the 'Database' tab selected. In the left sidebar, 'Data Manager' is expanded, and 'FEENICS' is selected. The main area shows the 'FEENICS' configuration form. The 'Type' dropdown is set to 'FEENICS'. The 'Name' field is empty, and the 'Prefix' field contains 'FEENICS - Prefix()'. The 'Add' button is highlighted with a red box. At the bottom right, the 'Save' button is highlighted with a red box and a red arrow pointing to it.

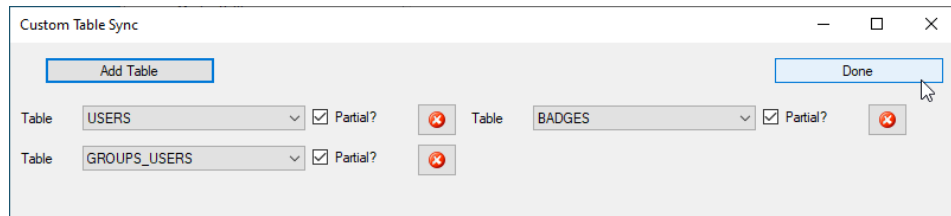
## Sync Timers

XPressEntry uses Timers to pull Feenics data into XPressEntry.

The screenshot shows the 'XPressEntry Settings' window with the 'Database' tab selected. In the left sidebar, 'Data Manager' is expanded, and 'FEENICS' is selected. The main area shows the 'FEENICS' configuration form. The 'Enable Data Manager Type: FEENICS' checkbox is checked. The 'Sync Timers' section is expanded, showing a table of sync options. The 'Send XPressEntry Activities Now' button is highlighted with a red box. The 'Download Activity Now', 'Occupancy Sync Now', 'Partial Sync Now', 'Full Sync Now', and 'Custom Sync Now' buttons are also highlighted with a red box. At the bottom right, the 'Save' button is highlighted with a red box and a red arrow pointing to it.

Sync Option	Frequency	Set	Clear	Action
Download Activity Frequency		Set	Clear	Download Activity Now
Occupancy Sync Frequency		Set	Clear	Occupancy Sync Now
Partial Sync Update Frequency		Set	Clear	Partial Sync Now
Full Sync Update Frequency		Set	Clear	Full Sync Now
Custom Sync Update Frequency		Set	Clear	Custom Sync Now

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

General

- Add / Edit Display
- Badges
- RFID
- User Defined Fields
- Muster Settings
- Question Setup
- Logging
- Client Settings
- Wiegand Format Data

Server

- Service Settings
- Database

Data Manager

- FEENICS
- Software Event Viewer

Reader Profiles

- Handheld Functionality
- Reader Validations
- Passwords
- Badge Settings
- Custom Display
- Validation Colors
- Doors
- Trend Settings
- Musters

Alert Settings

- Email Settings
- Twilio Alerts

☒ 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:

File Tools View Logout Entry/Exit Help

Entry/Exit Activity History Messages Add/Edit Info Logs

External Record: FEENICS\_63a04e65a8193544cae3e791

Users Companies Groups Zones Doors Readers Roles Timezones Muster Sites

Filter: [ ] [ ] [ ] [ ]

**Handhelds**

Handheld 1  
Handheld 2  
Server Reader : DESKTOP-G30M7MD

Time to Read 3 Records: 0.02 seconds

**Readers**

Canteen IN  
Reader Canteen OUT  
Reader Main Office IN  
Reader Main Office OUT

Time to Read 4 Records: 0.03 seconds

**Readers Form Fields:**

Name: Canteen IN

Doors: [ ]

Profile: [ ]

GUID: [ ]

External Muster Reader: [ ]

☐ Is External Muster Reader

External Muster Zone: [ ]

Create Reader Credential

**XPressFreedom Settings (optional)**

Freedom Name: [ ] Freedom Board: [ ]

IP Address: [ ]

TCP/IP Port: 80

Success Value: [ ] 2

☐ Enable Freedom Debug ☐ Relay Sense

☒ Enqueue Request: Key: DEFAULT

**RFID Settings (optional)**

RFID Reader: [ ]

Mode: [ ] Tren: [ ]

Antenna Port: 0 Same Zone: [ ]

**Not Active**

IDScan

Upload ID Scan Clear

Add New Delete Save Cancel

Activity Occupancy Partial Full Total Occupancy: 0 Inside 0 Zones 0 Unread Messages Service Running Locally

*XPressEntry User*

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

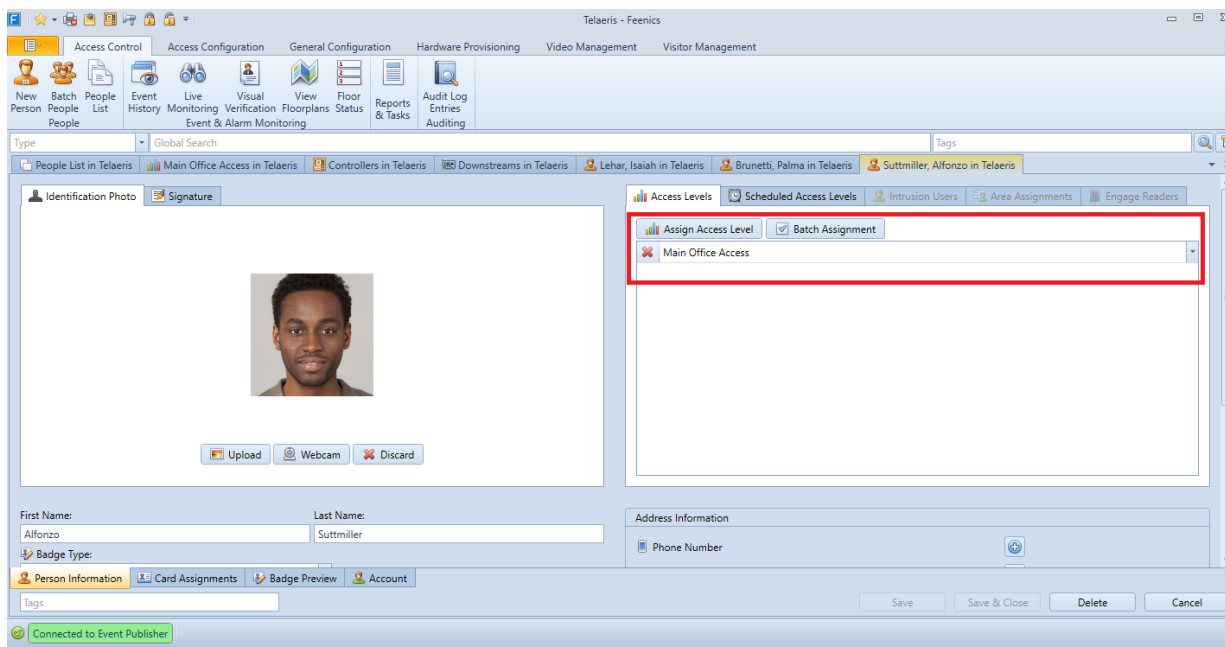
These users are seen in the **Cardholder Configuration** software in the Feenics.

## 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.

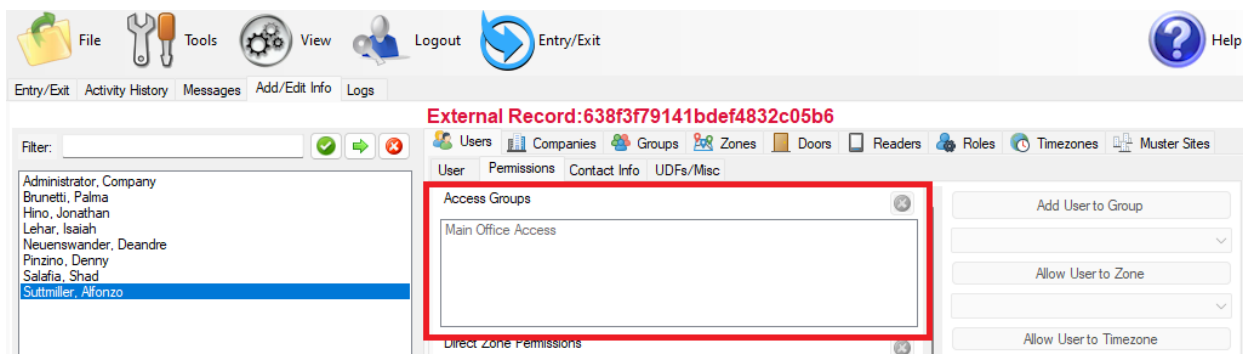
The following is an example of the permissions a user has in Feenics vs. how the data is displayed in XPressEntry.

### *Feenics Permissions*

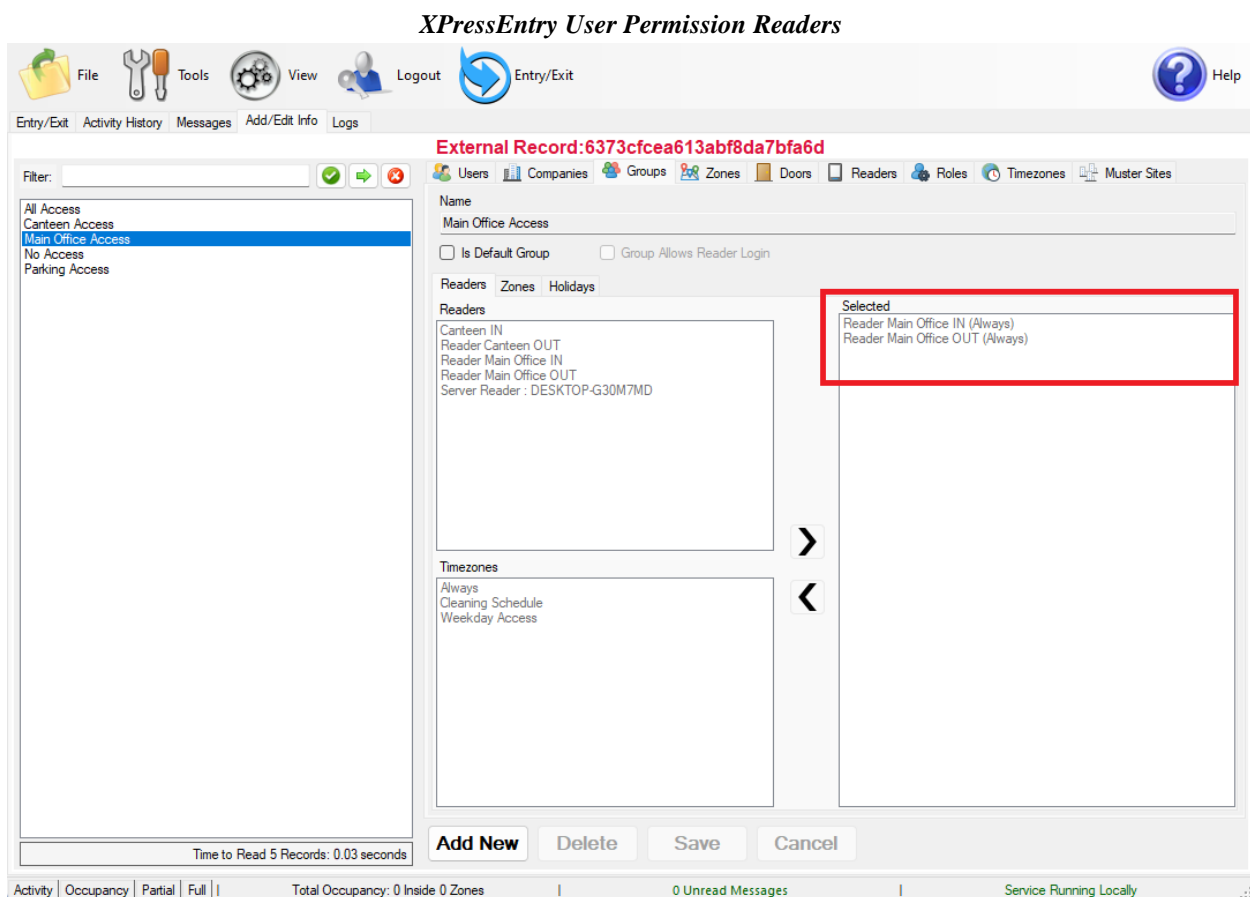


The **Main Office Access** Access Level has two readers assigned in the Access Level settings in the Feenics System Configuration as seen in the below image.

### *XPressEntry User Permissions*



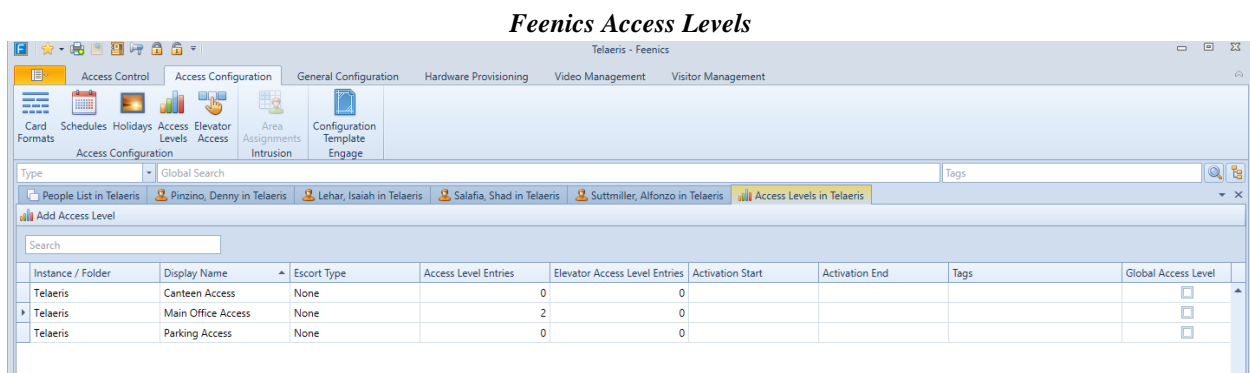
To see the readers user “Alfonzo Suttmillier” has access to, navigate to the **Groups** tab. Select **Main Office Access** from the list on the left.



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

## Groups

Feenics Access Level are mapped to Groups in XPressEntry.



## XPressEntry Groups

The screenshot shows the 'XPressEntry Groups' configuration window. The top menu bar includes 'File', 'Tools', 'View', 'Logout', and 'Entry/Exit'. Below the menu is a toolbar with icons for '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 pane displays the configuration for 'Main Office Access', including fields for 'Name', 'Is Default Group', and 'Group Allows Reader Login'. Below these are tabs for 'Readers', 'Zones', and 'Holidays'. The 'Readers' tab is active, showing a list of readers: 'Canteen IN', 'Reader Canteen OUT', 'Reader Main Office IN', 'Reader Main Office OUT', and 'Server Reader : DESKTOP-G30M7MD'. A 'Selected' list on the right shows '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 top menu bar and toolbar 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 pane displays the configuration for 'Main Building', including fields for 'Name', 'Description', and 'Parent Zone'. Below these are checkboxes for '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*

External Record: FEENICS\_635ab4811449bb93a60f7c31

Filter: [ ] [ ] [ ]

Always  
Cleaning Schedule  
Weekday Access

General Advanced

Name  
Weekday Access

Description

☐ Issues Warning Message

Intervals

	Start	End	Mon	Tue	Wed	Th	Fri	Sat	Sun
▶	09:00:00	17:00:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Interval Details

☒ Monday  
☒ Tuesday  
☒ Wednesday  
☒ Thursday  
☒ Friday  
☒ Saturday  
☒ Sunday

Start Time 00:00:00  
End Time 00:00:00

Time to Read 3 Records: 0.03 seconds

Activity | Occupancy | Partial | Full | Total Occupancy: 0 Inside 0 Zones | 0 Unread Messages | Service Running Locally

### *Feenics Schedules*

Telaeris - Feenics

Access Control Access Configuration General Configuration Hardware Provisioning Video Management Visitor Management

Card Formats Schedules Holidays Access Levels Elevator Access Area Assignments Intrusion Configuration Template Engage

Type Global Search Tags

Brunetti, Palma in Telaeris Suttmillier, Alfonso in Telaeris Live Monitoring in Telaeris Access Levels in Telaeris Schedules in Telaeris Cleaning Schedule in Telaeris Alwa

Display Name: Weekday Access One Off Date: 18-11-2022

☐ Add Schedule Duration

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Start Time	End Time	Always Active On
✖	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9:00 AM	5:00 PM	<input type="checkbox"/>

## Holidays

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

### *XPressEntry Holidays*

The screenshot shows the XPressEntry web interface. At the top, there's a navigation bar with icons for File, Tools, View, Logout, and Entry/Exit. Below this is a sub-navigation bar with tabs: Entry/Exit, Activity History, Messages, Add/Edit Info, and Logs. The main content area is titled "External Record: FEENICS\_6345a5544b2daec086b60cce". On the left, there's a "Filter:" section with a list of holidays: Boxing Day, Christmas, Labour Day, and Remembrance Day. On the right, there's a form for editing a holiday. The form includes fields for Name (Christmas), Description, Start Date (24 Dec 2022 18:30:00), End Date (25 Dec 2022 18:30:00), and a checkbox for "Repeats every year".

### *Feenics Holidays*

The screenshot shows the Feenics web interface. At the top, there's a navigation bar with icons for Access Control, Access Configuration, General Configuration, Hardware Provisioning, Video Management, and Visitor Management. Below this is a sub-navigation bar with tabs: Card Formats, Schedules, Holidays, Access Levels, Elevator Access, Area Assignments, Configuration Template, and Intrusion. The main content area is titled "Telaeris - Feenics". It features a "Global Search" bar and a "Tags" bar. Below these are several tabs: Live Monitoring in Telaeris, Access Levels in Telaeris, Schedules in Telaeris, Cleaning Schedule in Telaeris, Always in Telaeris, Weekday Access in Telaeris, and Holidays in Telaeris. The "Holidays in Telaeris" tab is selected, showing a table of holidays.

Display Name	Start Date	End Date	Special Date	Holiday Group Membership	Tags
Labour Day	01-05-2022	01-05-2022	<input checked="" type="checkbox"/>		
Remembrance Day	11-11-2022	11-11-2022	<input type="checkbox"/>		
Christmas	24-12-2022	25-12-2022	<input type="checkbox"/>	Holiday Group 1 x	
Boxing Day	26-12-2022	26-12-2022	<input type="checkbox"/>		

## 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*

The screenshot displays the XPressEntry software interface for configuring doors. The top navigation bar includes icons for File, Tools, View, Logout, and Entry/Exit, along with a Help button. Below the navigation bar, there are tabs for Entry/Exit, Activity History, Messages, Add/Edit Info, and Logs. The main content area is titled "External Record: 63a04e65a8193544cae3e791". On the left, there is a list of doors with a filter input. The list includes "dr\_Canteen IN", "dr\_Reader Canteen OUT", "dr\_Reader Main Office IN", "dr\_Reader Main Office OUT", and "Test Door". On the right, there is a configuration form for a door. The form has several sections: "Door Name" (dr\_Canteen IN), "Start Zone" (Main Building), "End Zone" (Canteen), "Door RFID Tag#" (empty), "External Entry Reader" (Canteen IN), and "External Exit Reader" (Reader Canteen OUT). Red boxes labeled 'a' and 'b' highlight the "Start Zone" and "End Zone" fields, and the "External Entry Reader" and "External Exit Reader" fields, respectively. At the bottom of the form, there are buttons for "Add New", "Delete", "Save", and "Cancel". The status bar at the bottom shows "Activity | Occupancy | Partial | Full |", "Total Occupancy: 0 Inside 0 Zones", "0 Unread Messages", and "Service Running Locally".

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, and the 'Allow Editing of External Data' checkbox is checked and enclosed in a red rectangular box. Other settings include 'Show External Flag in Add / Edit List', 'Show External ID in Add / Edit List', 'Show Badge Types Form', 'Show Visitor Pre-Registration Form', 'Show RFID Form', 'Show Badge Layouts Form', 'Show Timezones Form', 'Show Muster Sites Form', 'Show Holidays Form', 'Show Deleted Records in Add / Edit List', 'Pagination Size (Zero to Show All)' set to 100, 'Readers' section with 'Allow Reader GUID Switching', 'Show Reader Merging', and 'Show Reader Timezones', 'Badges' section with 'Show External ID in Badge Grid', 'Show Facility Code Column In Badges', 'Show Badge Defined Field 1 in Add/Edit', 'Show Badge Defined Field 2 in Add/Edit', and 'Show Badge Defined Field 3 in Add/Edit', 'Users' section with 'Enable User Watch Lists', 'Enforce Employee Badge # Uniqueness', and 'Enforce Strict Password', and 'GPS' section with 'Show GPS Coordinates in Doors' and 'Show GPS Column's in Activity History'. At the bottom right are 'Save' and 'Cancel' buttons.

Section	Setting	Status
General	Show Badge Types Form	<input type="checkbox"/>
	Show Visitor Pre-Registration Form	<input type="checkbox"/>
	Show RFID Form	<input type="checkbox"/>
	Show Badge Layouts Form	<input type="checkbox"/>
	Show Timezones Form	<input checked="" type="checkbox"/>
	Show Muster Sites Form	<input checked="" type="checkbox"/>
	Show Holidays Form	<input type="checkbox"/>
	Show Deleted Records in Add / Edit List	<input type="checkbox"/>
	Pagination Size (Zero to Show All)	100
	External Data	Show External Flag in Add / Edit List
Show External ID in Add / Edit List		<input checked="" type="checkbox"/>
External Data	Allow Editing of External Data	<input checked="" type="checkbox"/>
Readers	Allow Reader GUID Switching	<input type="checkbox"/>
	Show Reader Merging	<input type="checkbox"/>
	Show Reader Timezones	<input type="checkbox"/>
Badges	Show External ID in Badge Grid	<input type="checkbox"/>
	Show Facility Code Column In Badges	<input type="checkbox"/>
	Show Badge Defined Field 1 in Add/Edit	<input type="checkbox"/>
	Show Badge Defined Field 2 in Add/Edit	<input type="checkbox"/>
	Show Badge Defined Field 3 in Add/Edit	<input type="checkbox"/>
Users	Enable User Watch Lists	<input type="checkbox"/>
	Enforce Employee Badge # Uniqueness	<input checked="" type="checkbox"/>
	Enforce Strict Password	<input checked="" type="checkbox"/>
GPS	Show GPS Coordinates in Doors	<input type="checkbox"/>
	Show GPS Column's in Activity History	<input type="checkbox"/>

## 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*

The screenshot shows the 'XPressEntry Settings' window. The left sidebar contains a tree view with categories like General, Server, Data Manager, Reader Profiles, and Alert Settings. The 'Data Manager' category is expanded, showing 'FEENICS' and 'Software Event Viewer'. The main panel is titled 'Type: FEENICS' and has a 'Setup Data Manager' button. It contains two tabs: 'Sync Timers' and 'Sync Options'. The 'Sync Options' tab is active, showing several settings: 'Pull DataManager Occupancy' (unchecked), 'Event Processing Retry Count' (3), 'Default Outside Zone' (dropdown), 'Default Role' (dropdown), 'Pull Data Manager Activities into XPressEntry' (checked), 'DMPrefix' (text field), 'Push XPressEntry Activities to Data Manager' (checked), 'Muster Scanned Users' (dropdown set to 'never'), 'Send Activities Retry Count' (3), 'Watch Tables via Software Events' (checked and highlighted with a red box), 'Enable Message Queue' (unchecked), 'Message Queue Name' (.\Private\$\DataManagerEvent), and 'Event Processing Loop Limit' (10). At the bottom of the main panel are buttons for 'Clear Data Manager Settings' and 'Clear External Data'. Below this is a 'Data Manager Live Log View' section with 'Pause', 'Mirror Log To:' (text field), and 'Browse' buttons. At the very bottom are 'Save' and 'Cancel' buttons.

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