XPRESS ENTRY

XPressEntry / Feenics Synchronization

Revision 12/16/2022

For use with the XPressEntry Mobile Access Control System

By

◆TELAERIS, Inc.

Important Notice

Your right to copy XPressEntry software and this manual is limited by copyright laws. Making copies, adaptations, or compilation works (except copies of XPressEntry software for archival purposes as an essential step in the utilization of the program in conjunction with the equipment), without prior written authorization of Telaeris, Inc., is prohibited by law and constitutes a punishable violation of the law.

This software and documentation are copyrighted by Telaeris, Inc. The software and documentation are licensed, not sold, and may be used or copied only in accordance with the Telaeris License Agreement accompanying the software.

© 2017 Telaeris, Inc.

All rights reserved worldwide.

Information in this document is subject to change without notice.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning, digitizing, or otherwise, without the prior written consent of Telaeris, Inc.

Trademark Acknowledgements

XPressEntry is a trademark of Telaeris, Inc.

Microsoft, Windows Access are trademarks or registered trademarks of Microsoft Corporation.

Other company and product names may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

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

(858) 627-9700

www.telaeris.com

Table of Contents

Table of Contents	3
Purpose	4
Setting Up Feenics to Synchronize with XPressEntry	4
Order of Operations	Error! Bookmark not defined.
Setup Feenics and Settings	4
Enable Synchronization	4
Data Manager Tab	7
Feenics Setup Page	12
Feenics Sync Check	13
Feenics	Error! Bookmark not defined.
XPressEntry	14
Readers	15
Users	15
User Permissions	17
Groups	20
Zones	22
Timezones	24
Holidays	26
Configuring XPressEntry Using Feenics Data	28
Doors	28
Readers	31
Activities	22

Purpose

This document is intended to instruct users on how to synchronize an XPressEntry system with Feenics system.

Setting Up Feenics to Synchronize with XPressEntry

The Feenics Access Control platform can be accessed by the Windows Client, the Web Client, or the Mobile Application. Here it is assumed Feenics is installed on a server. Feenics Windows Client link. https://feenics.acre-co.com/kb/article/989-downloads/

XPressEntry communicates with Feenics by using web services that provide access to Feenics configuration.

Requirements for Feenics

- OS: Windows 8.1 or grater
- Outbound access to keepapi.feenicshosting.com over port 443

Setup Feenics Data and Settings

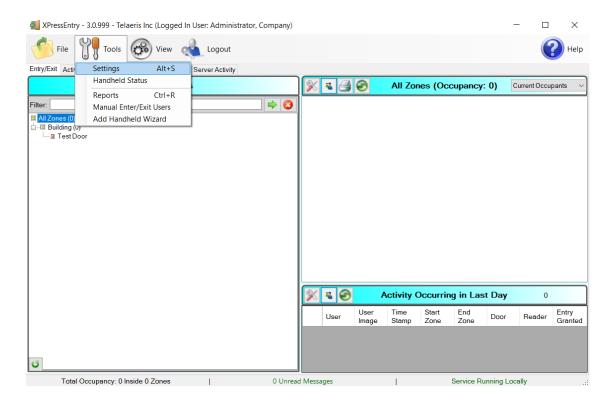
Handhelds

For every physical XPressEntry handheld reader, you should have two logical readers in the Feenics System. They should be distinguished with the words "Entry/Exit" or "IN/OUT" at the end of them. These readers are only theoretical and represent the location in which an XPressEntry Mobile Reader will be used.

Enable Synchronization

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)

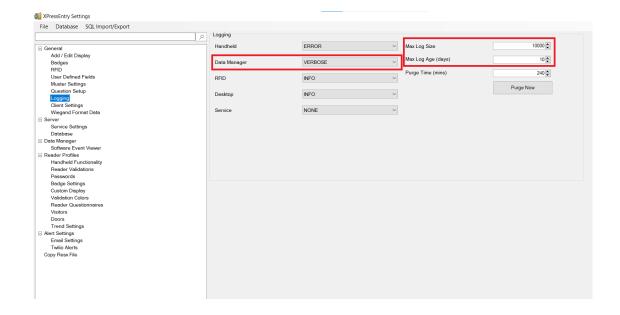
Figure 1 - XPressEntry



General tab

From the Settings page, select the General Tab, Select Logging

Figure 2 - Logging Settings



Set the Data Manager Log level to DEBUG or VERBOSE - this will allow you to view log entries during the sync process

Max log size- 5000 or higher

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

In the Reader Profile Tab is where you configure the handhelds click the Reader Validation Tab

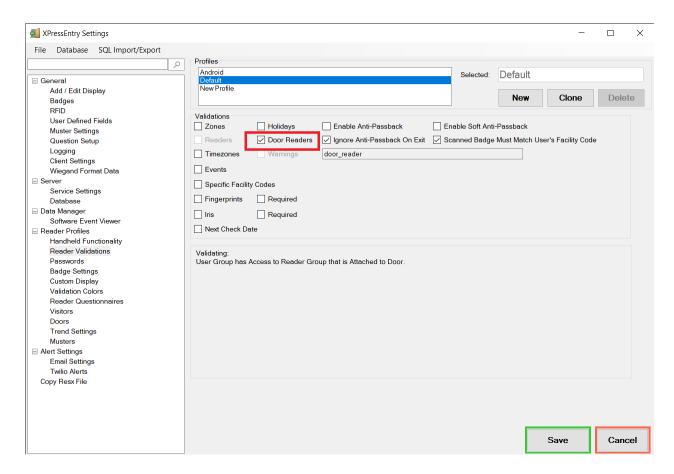


Figure 3 - Reader Validations

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

Data Manager Tab

From the Settings page select the Data Manager Tab.

In the Data Manager page select "FEENICS" from the Type drop down list and click "Add" button. Then you can see that the Feenics Data manager is selected and added. You can see that the Name and Prefix is added. Then click "Save".

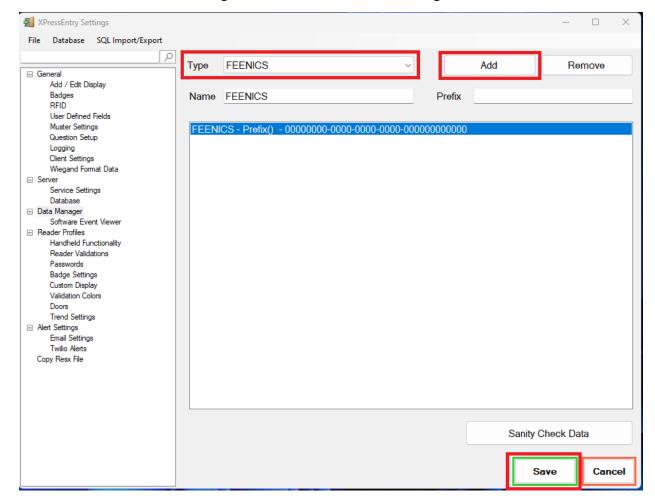


Figure 4 – Add Feenics Data Manager

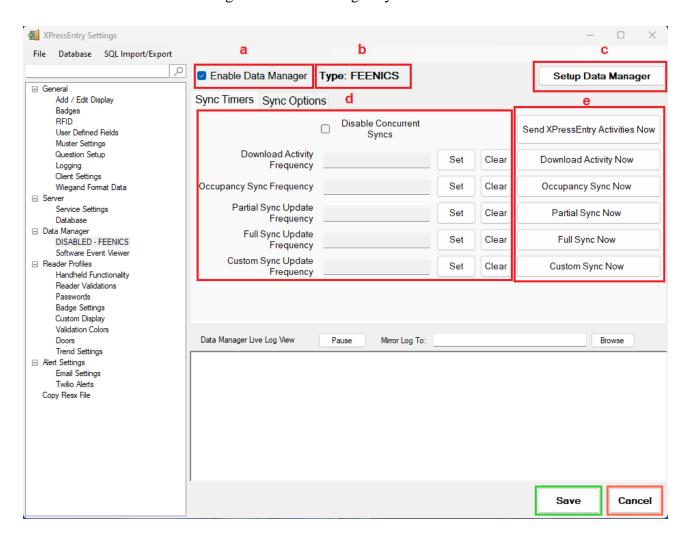
Now the Feenics data manger is added successfully, and you can see a new sub tab is added as FEENICS right under the Data manager tab.

When you select the FEENICS tab from the data manager settings you will see the Feenics Data manger main settings page.

The Data Manager Tab has 2 Sub Tabs.

1. Sync Timers

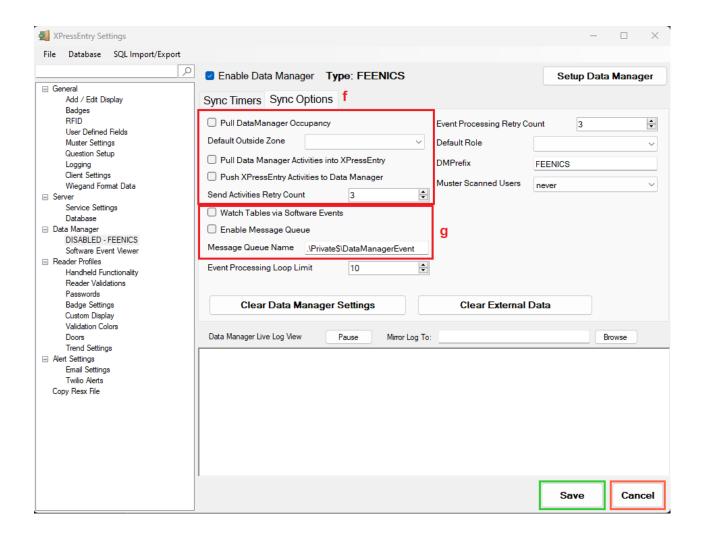
Figure 5 - Data Manager Sync Timers



- a. **Enable Data Manager** To Enable the Data Manger operations
- b. **Type** This is the integration type we selected. FEENICS.
- c. Setup Data Manager- Sends you to the setup form for FEENICS data manager.
- d. **Update Frequency options** Sets and clears the intervals in which the data manager updates XPressEntry.
- e. Immediate sync functions Runs an immediate update.

2. Sync Options

Figure 6 - Data Manager Sync Options



- f. **Activity Synchronization options** Used to send XPressEntry handheld activities to Feenics.
- g. **Live Event Settings** To Enable message queue and watch live events.

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

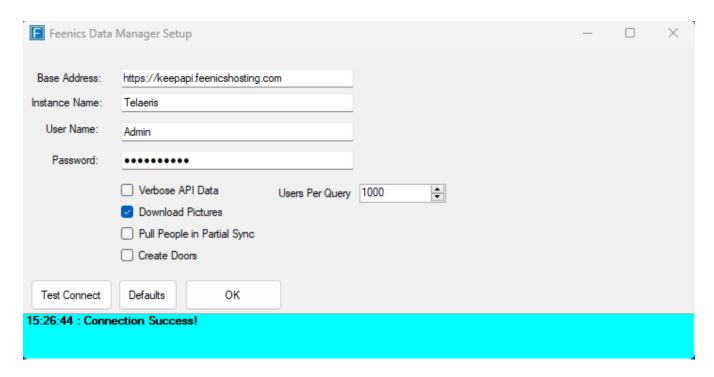
- 1. Full Sync Update- This sync will grab all relevant records from FEENICS and update them in XPressEntry. If there is many users in FEENICS, this sync option can take some time.
- 2. Partial Sync Update- This sync will grab records from all tables but will limit the number of Users that are retrieved from Feenics. It will only grab the last x number of users that were added to the system. This is valuable when you do not want to wait for a long sync but want to add a new user into the XPressEntry 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.
- 3. Activity Sync Update Use this sync to send XPressEntry Events to Feenics. These events will show up as Feenics Event and Alarm Monitoring. The "Activity Synchronizing" section contains two options.
 - a. Pull Data Manager Activities into XPressEntry This option allows you to pull activities from Feenics. This will change the location of the user within XPressEntry
 - b. Push XPressEntry Activities to Data Manager Will push XPressEntry handheld activities to Feenics.

All these options can be changed at any time. Changing any option will immediately take effect. When all settings are done Click **Save** button to save all settings from the Syn Timers Sync options Tab.

Feenics Setup Page

Press the "Setup Data Manager" button to get the Feenics specific setup screen.

Figure 7 - Feenics Setup



- Base Address Feenics Server Base Address.
- Instance Name Feenics Instance login name.
- User Name and Password Feenics Login details (Feenics operator's User name and password).
- Verbose API Data Tick this if you want to log API data.
- Download Pictures Enabling this will download user images from Feenics. (Enabled by default)
- Pull People in Partial Sync Tick this if you want to sync users when you are doing the partial sync.
- Create doors Tick this if you want to create doors in XPressEntry out of all the readers pulled from Feenics.
- Users Per Query Number of users need to pull from Feenics in a single API call.

Click "Test Connect" after entering all the data correctly, this will connect to the Feenics Server using the given username and password and the result will display "Connection Success!" if connected to Feenics successfully. Is any error in the connection it will show in the same result window.

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

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

Select "Full Sync Now" to pull all data from Feenics. Once the sync has finished, all relevant Feenics

records should now display in XPressEntry.

Feenics 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, "Configuring XPressEntry using Feenics Data".

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

Table 1 – Mapping Data

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

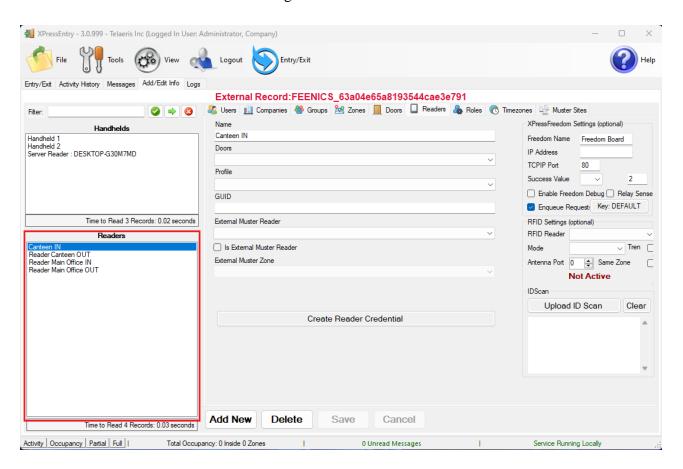
All External Records (From Feenics Access Control System) will display in red as an "External Record" at the top of the form. This label will not display for any records that were created from within XPressEntry.

Below are the Mapping details of each Data pulled from Feenics

Readers

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

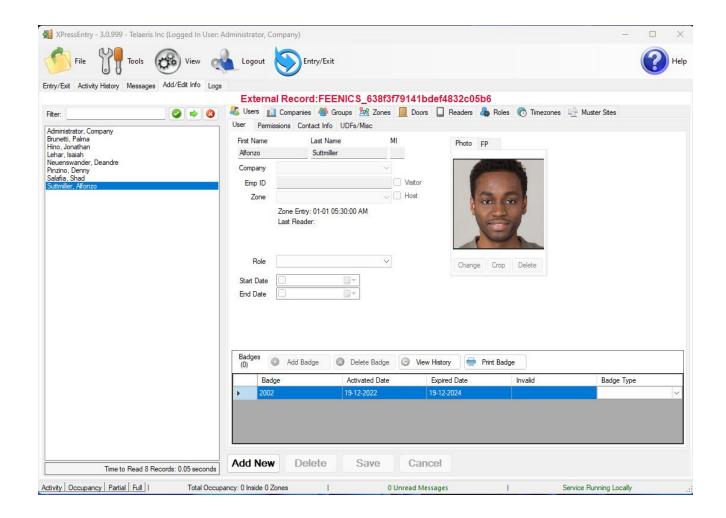
Figure 8 – Readers



Users

Here is a sample of a properly synchronized user:

Figure 10 – Users



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

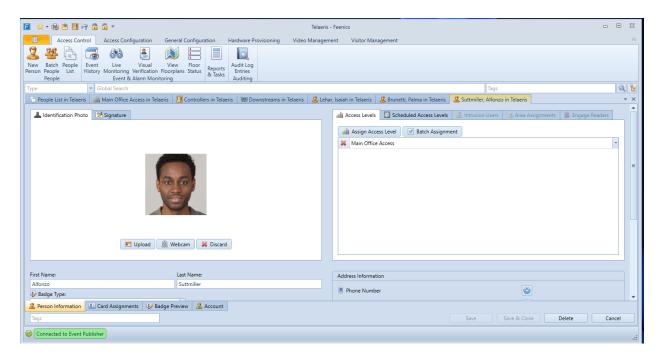


Figure 11 – Feenics Peoples

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.

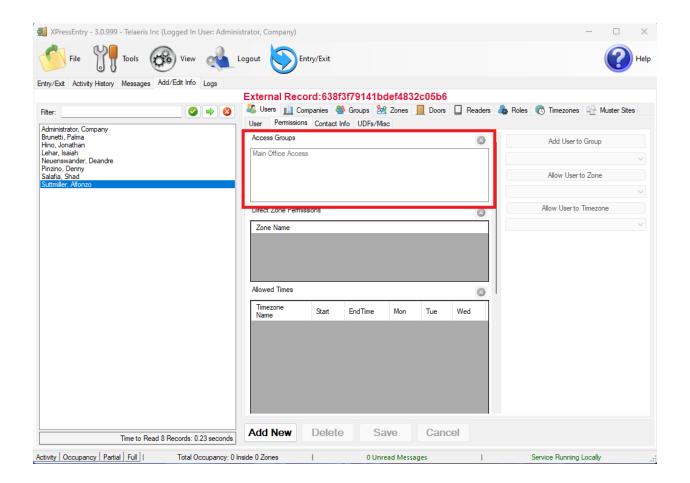
- B X **ॐ** 🖹 👼 ∂% Batch People Event Live Visual View Floor Reports Audit Log Entries Event & Alarm Monitoring People Event & Alarm Monitoring Q E 🕒 People List in Telaeris 🕍 Main Office Access in Telaeris 🤔 Controllers in Telaeris 🐯 Downstreams in Telaeris 🙎 Lehar, Isaiah in Telaeris 🙎 Brunetti, Palma in Telaeris 🚨 Suttmiller, Alfonzo in Telaeris ▲ Identification Photo 🧾 Signature Access Levels Scheduled Access Levels Scheduled Access Levels Access Levels Area Assignments Engage Readers Assign Access Level

Batch Assignment X Main Office Access First Name Address Information Phone Number ₯ Badge Type: ion 🚨 Card Assignments 🤣 Badge Preview 🚨 Account

Figure 12 - Feenics Permissions

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

Figure 13 - XPressEntry Permissions



In order 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.

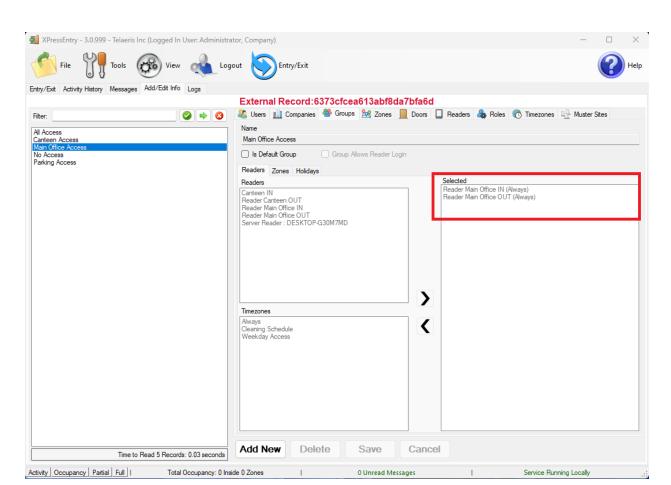


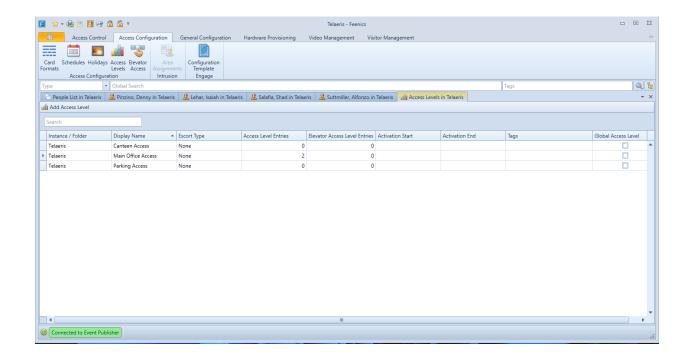
Figure 14 - XPressEntry Permissions Readers

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

Groups

Feenics Access Level are mapped to Groups in XPressEntry.

Figure 15 - Feenics Access levels



XPressEntry - 3.0.999 - Telaeris Inc (Logged In User: Administrator, Company) Tools View Logout Entry/Exit | Activity History | Messages | Add/Edit Info | Logs External Record:6373cfcea613abf8da7bfa6d 🦀 Users 👖 Companies 🐣 Groups 🕍 Zones 📗 Doors 🔲 Readers 🐁 Roles 👩 Timezones 🖳 Muster Sites Filter: All Access Canteen Access Main Office Acces No Access Parking Access ☐ Is Default Group Group Allows Reader Login Readers Zones Holidays Selected Reader Main Office IN (Always) Reader Main Office OUT (Always) Readers Canteen IN Reader Canteen OUT Reader Main Office IN Reader Main Office OUT Server Reader : DESKTOP-G30M7MD > Always Cleaning Schedule Weekday Access

Figure 16 - XPressEntry Groups

Zones

Activity Occupancy Partial Full

The Areas in Feenics should be available to view in the "Zone" tab under Add/Edit Info.

Delete

Save

Cancel

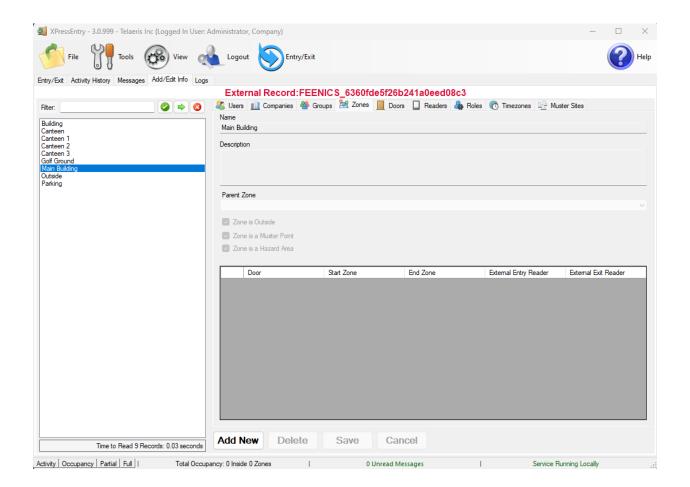
Add New

Here is a sample of a properly synchronized Zones:

Total Occupancy: 0 Inside 0 Zones

Time to Read 5 Records: 0.03 seconds

Figure 17 – XPressEntry Zones



Timezones

Timezones are pulled from Feenics Schedules in XPressEntry. Timezones should be available to view in the "TimeZones" tab under Add/Edit Info. If a single Time Zone has multiple standard time ranges for different days of the week, XPressEntry will create additional intervals to support this. Also, XPressEntry will ignore the time zone intervals with same start and end time.

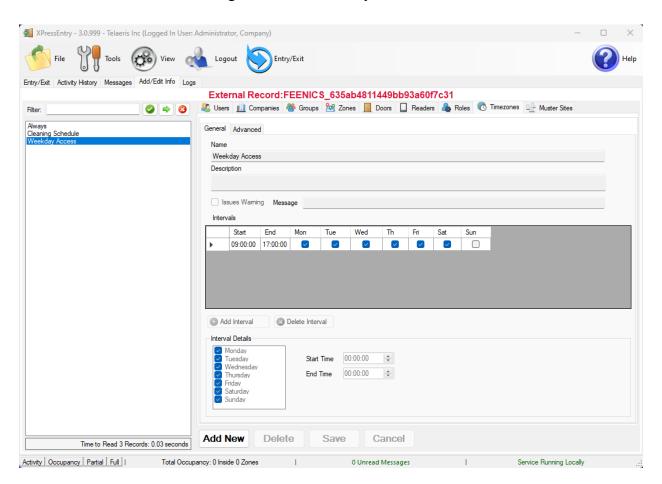
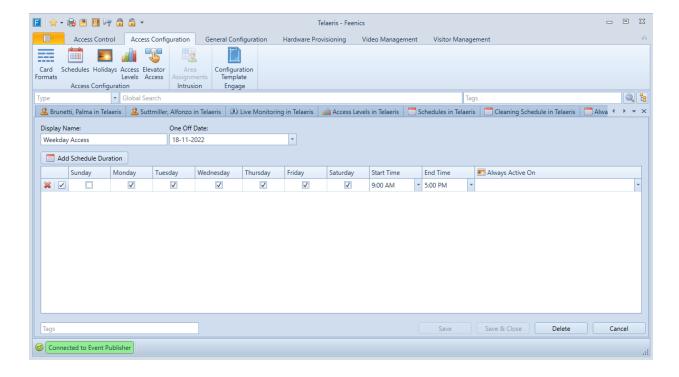


Figure 18 - XPressEntry Timezones

Figure 19 - Feenics Schedules



Holidays

Holidays are the simplest tables to pull from Feenics. All the "Holidays" should be available to view in the "Holidays" tab.

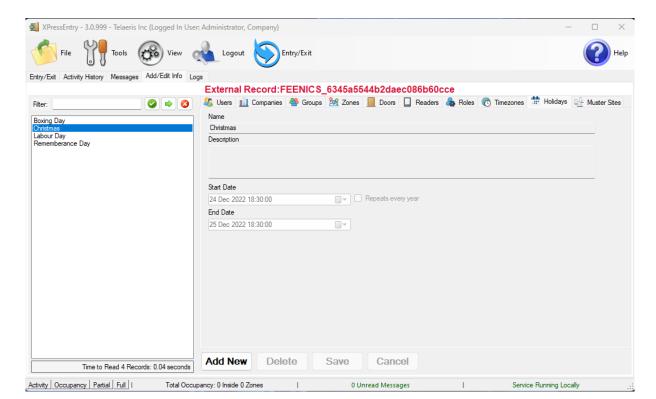
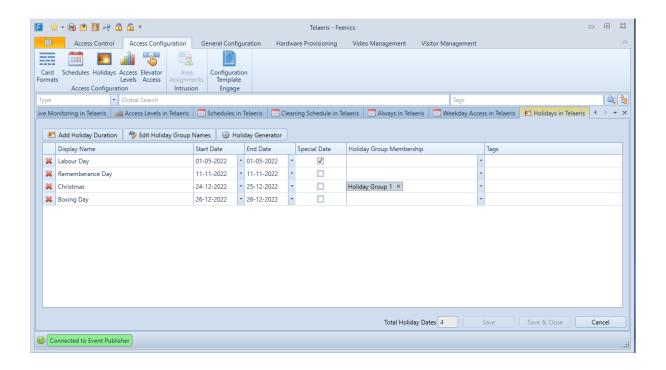


Figure 20 - XPressEntry Holidays

Figure 21 – Feenics Holidays



Configuring XPressEntry Using Feenics Data

Now that XPressEntry has 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

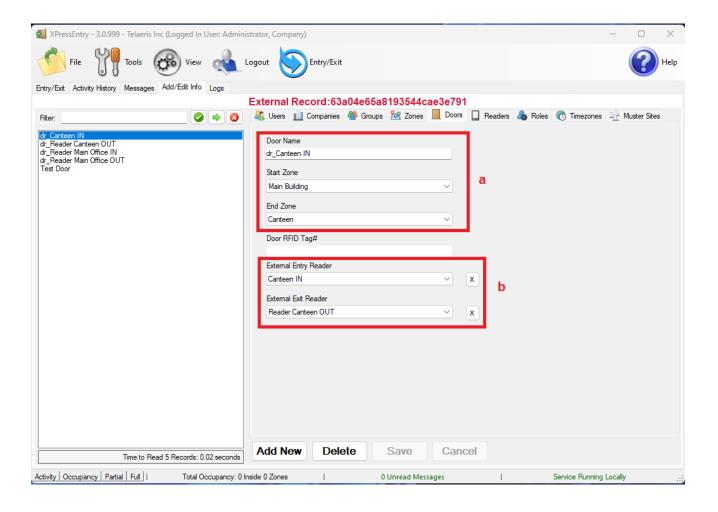
Entry/Exit permissions in XPressEntry are set by doors. Doors contain two readers, an exit and an entry reader. Door access is determined by the User's access to the door's reader. For entry, permission is based on the user's access to the door's external entry reader. For exit, permission is based on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

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

Figure 22 – XPressEntry Doors



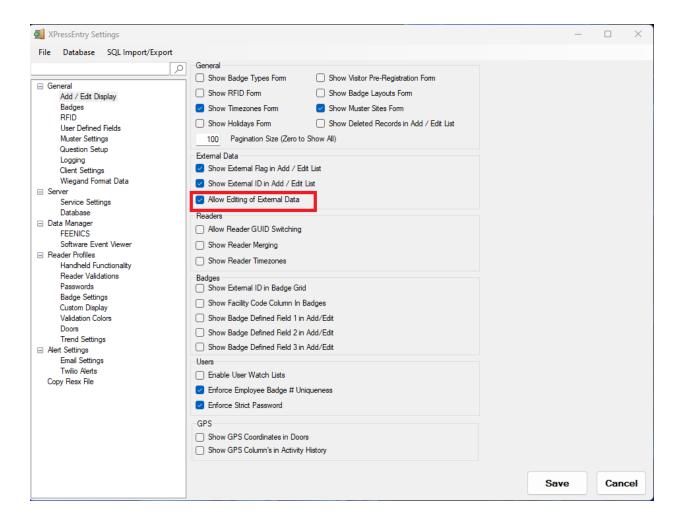
- a. Zones For each door, set the start zone and end zone. This will "enter" a user in the specified zone when they enter or exit (or scan at a Feenics readers).
- b. External Readers Attach the logical entry and exit readers that you created in Feenics.

XPressEntry requires that you manually set up the doors in the system. There should be a door in XPressEntry for each physical station that an employee will have a handheld. To create a door, select "Add New" at the bottom of the form. Enter a name that clearly describes what this door represents. Select "Outside" for Start Zone and "Building" for End Zone. Since each door is created based on a reader, The "External Entry Reader" will be always 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, Select Add/Edit Display then check the option "Allow Editing of External Data" in the External Data Section.

Figure 23 – External Data Settings



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.

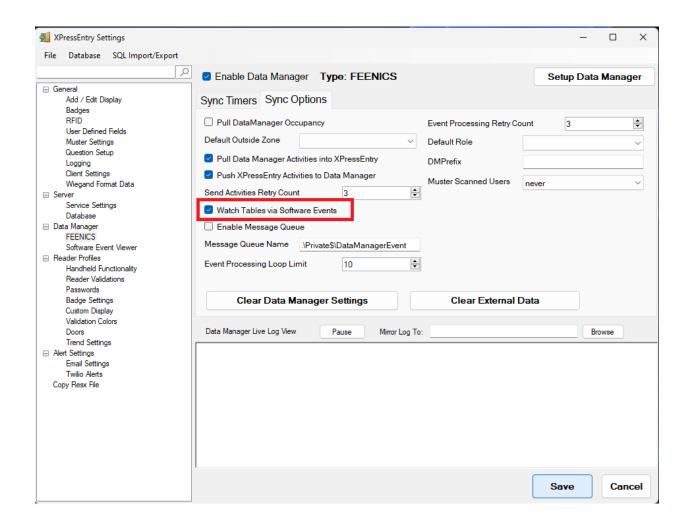
If XPressEntry is configured to "pull" activities, the occupancy of the system will change each time a person scans at a reader that is mapped to a door in XPressEntry.

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 to create a list of people who are still on site.
- 2. You want to use XPressEntry's features to determine who is on site, and what areas people are in.

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

Figure 24 – Watch Feenics Live Events



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