

# ***XPRESSENTRY***

## **XPressEntry / Maxxess**

**Revision 08/20/2023**

For use with the  
XPressEntry Mobile Access Control System

By



## **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.

© 2023 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, and 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 Street

San Diego, California 92103

United States of America

(858) 627-9700

[www.telaeris.com](http://www.telaeris.com)

Contents

- Purpose..... 4**
- Pre-requisites ..... 4**
- Setting Up eFusion to Synchronize with XPressEntry..... 4**
  - Order of Operations ..... 4
  - Setup eFusion Data and Settings ..... 4
    - Enable ExternalOfflineReader ..... 4
    - Operator ..... 5
    - Area Controller ..... 6
    - Panels ..... 7
    - Doors..... 8
    - Access Levels ..... 8
- Enable XPressEntry Synchronization ..... 9**
  - Data Manager Tab ..... 9
    - Sync Timers ..... 10
    - Sync Options..... 11
    - eFusion Data Manager Setup Page..... 12
  - XPressEntry Data..... 13
    - Users ..... 13
    - User Permissions ..... 13
    - Doors..... 14
    - Activities ..... 15
- Wiegand Formats for Maxxess Systems..... 15**

## Purpose

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

1. Maxxess eFusion version 6.3+
2. eFusion Web API License
3. eFusion ExternalOfflineReader License
4. XPressEntry 3.3+
5. XPressEntry License with Maxxess Feature Enabled

## Setting Up eFusion to Synchronize with XPressEntry

It is assumed that eFusion is installed. You must first install the **Maxxess Web API** and **enable External Offline Readers** in the Maxxess System.

### Order of Operations

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

### Setup eFusion Data and Settings

#### Enable ExternalOfflineReader

1. Go to eFusion Service Manager. Click **Setup > Integrators**.
2. Expand **Installed Integrators**, and right click ExternalReaderOffline. **Select New Integrator**. If you do not see this, please reach out to your Maxxess rep or integrator.
3. Save The new **ExternalReaderOffline**.

*\*Note: Make sure the Debug value is set to 0, or events may not be sent to Maxxess Transaction logs.*

Figure 1 – Service Manager Integrator

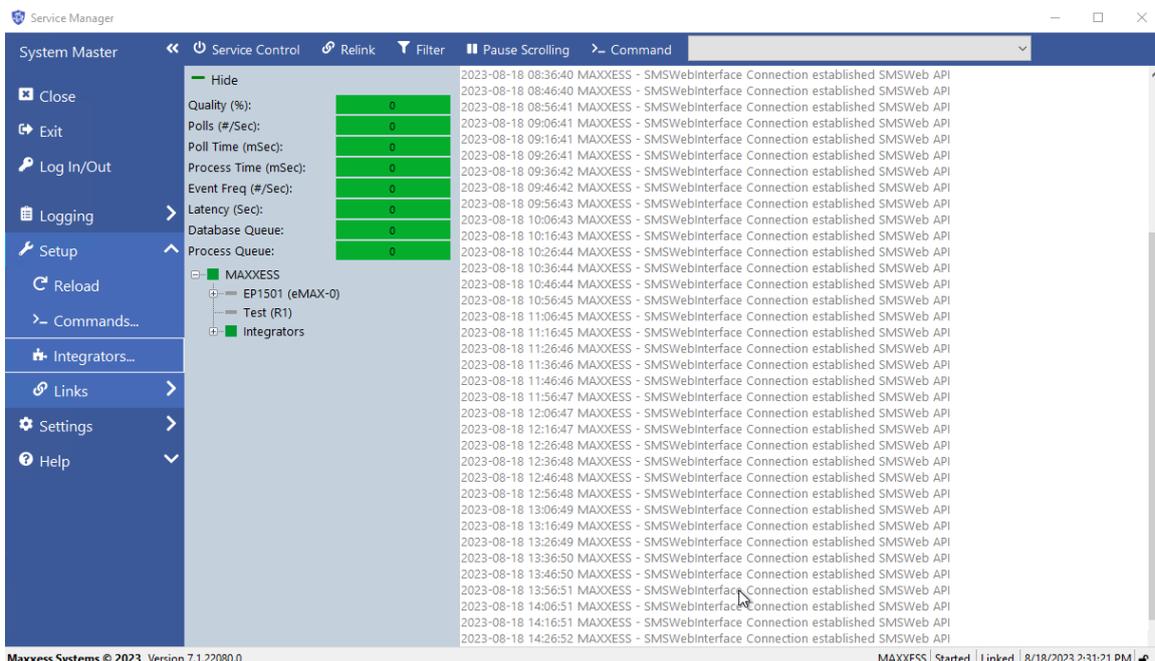
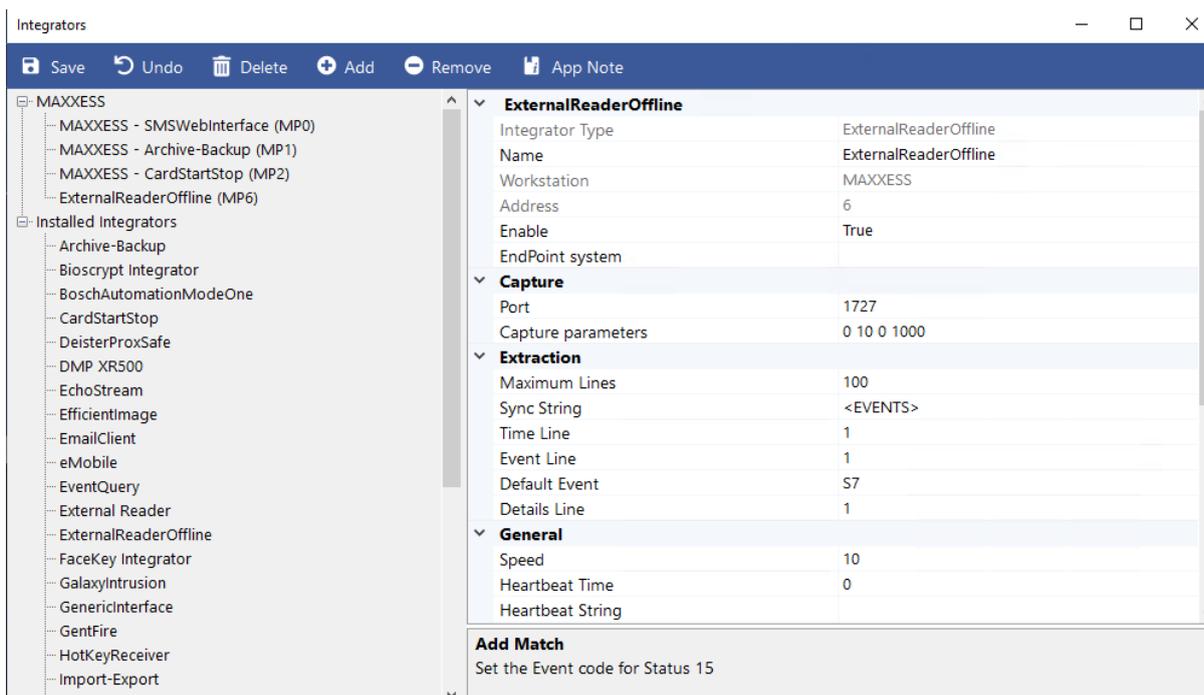


Figure 2 – ExternalReaderOffline



## Operator

1. Set up an operator for the XPressEntry synchronization. This operator can be an **existing operator**, or a **specific account** used as a service account specially for XPressEntry.
2. From the eFusion menu at the top, select **Configuration > Operator Privileges**.
3. If adding a new operator, select **New**. Add a name, username, and password. Enable **Administrator** checkbox. Click Save.

Figure 3 – eFusion Operator Privileges

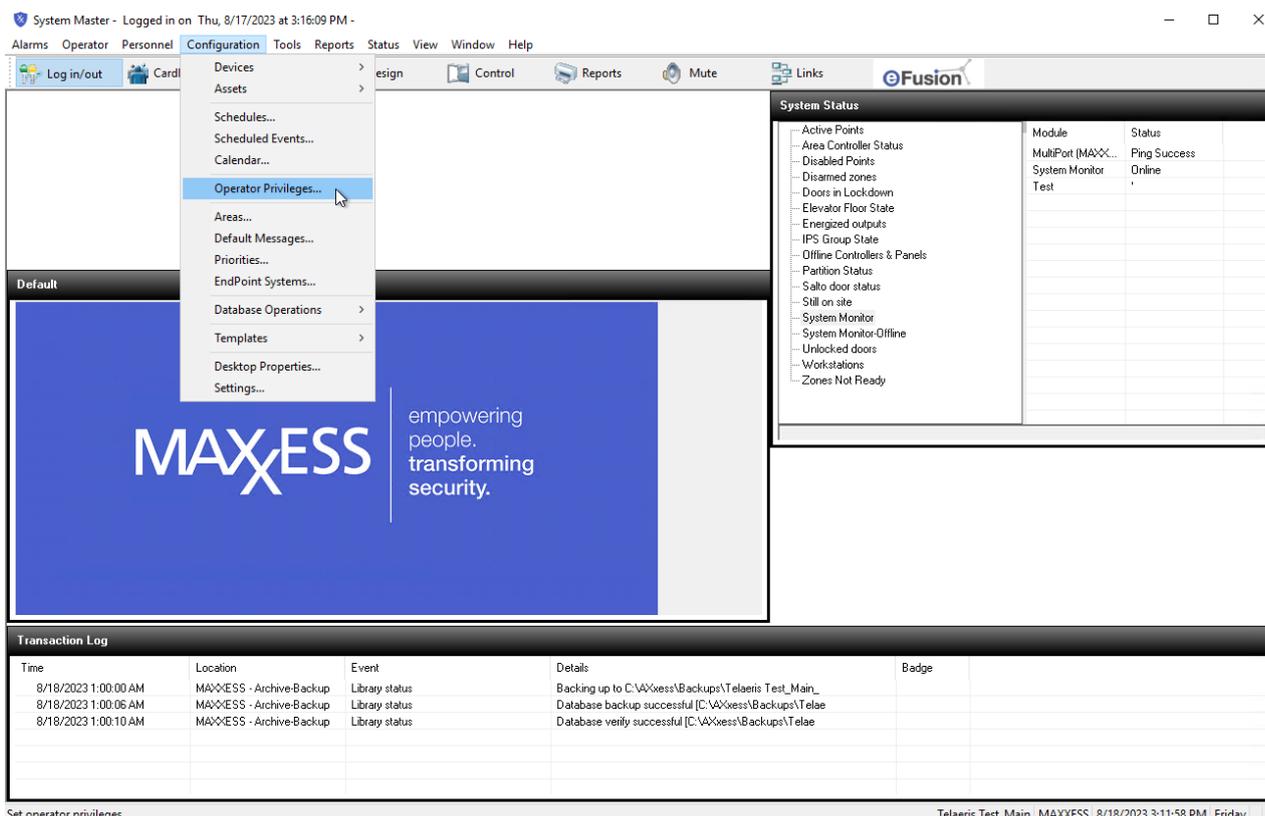
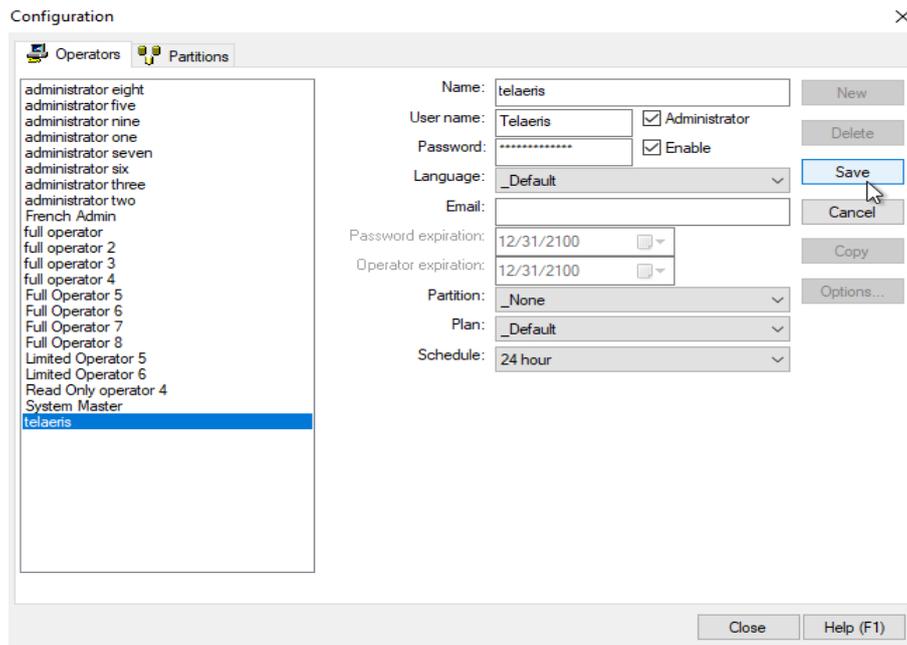


Figure 4 – Operator Configuration



## Area Controller

1. Select Area Controllers under **Configuration > Devices > Area Controllers**.
2. Add a new Area Controller. You may name it **XPressEntry** or anything to identify the controller's association to the XPressEntry system.
3. Set the Type to **Telaeris**. Click Save.

Figure 5 – eFusion Area Controllers

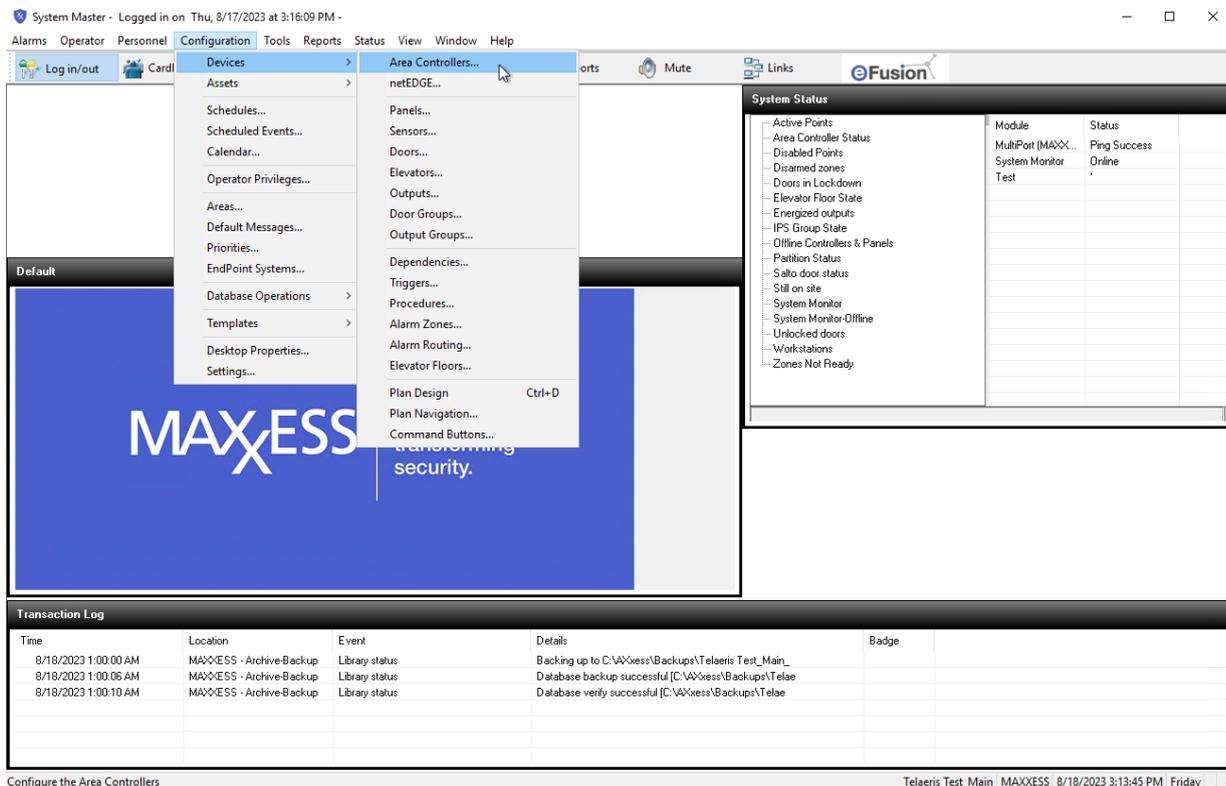
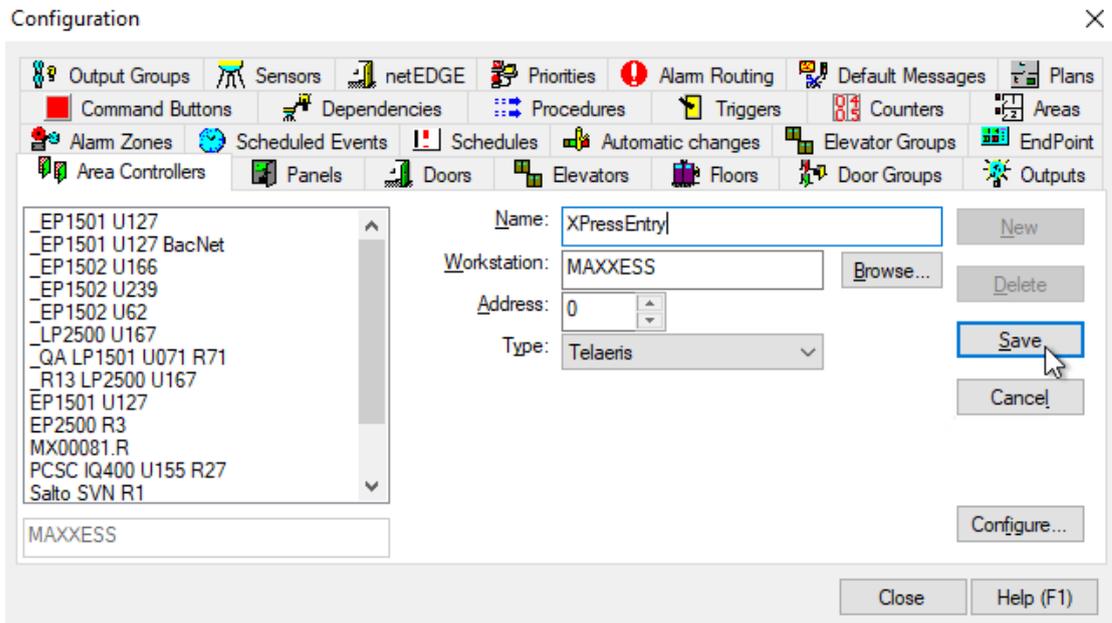


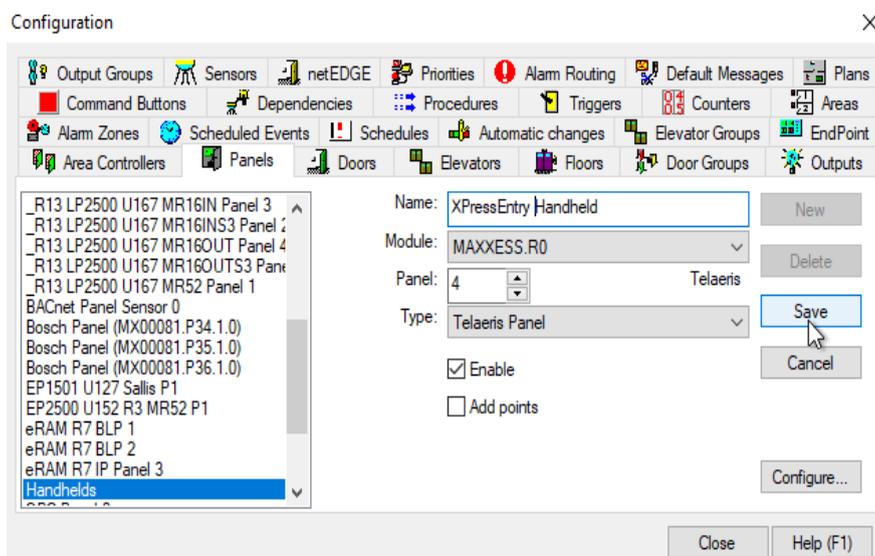
Figure 5 – Area Controllers Configuration



## Panels

1. Create a new Panel and give it a name.
2. Set the Type to **Telaaris Panel**. Telaaris Panel allows the creation of up to **50** entry and exit readers. Select **Enable**.
3. If you would like to create the max number of readers, select **Add Point**. If not, make sure to unselect the checkbox. Click Save.

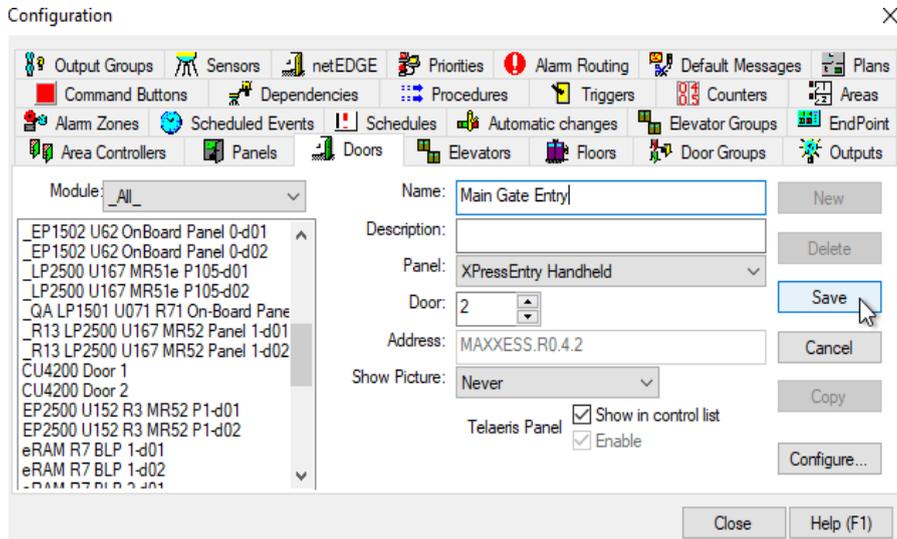
Figure 6 – Panels Configuration



## Doors

Create doors in eFusion. You can create as many doors as needed. One for Entry and one for Exit is common per door. Add a name, select the **XPressEntry Panel**. Click Save.

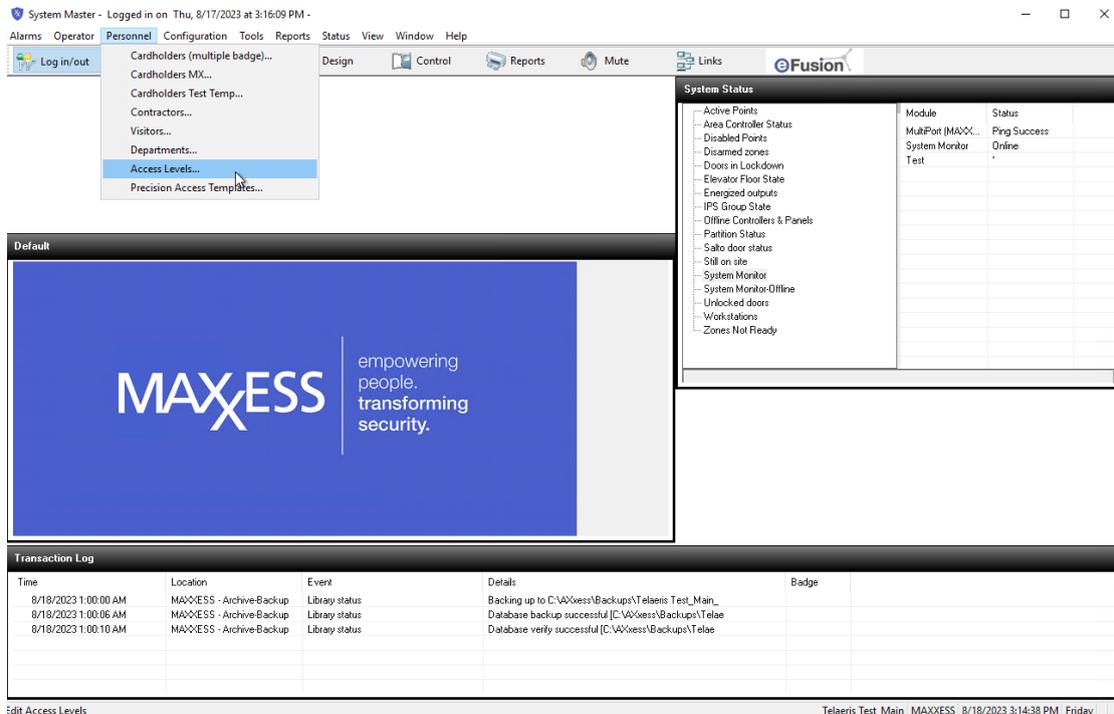
Figure 6 – Doors Configuration

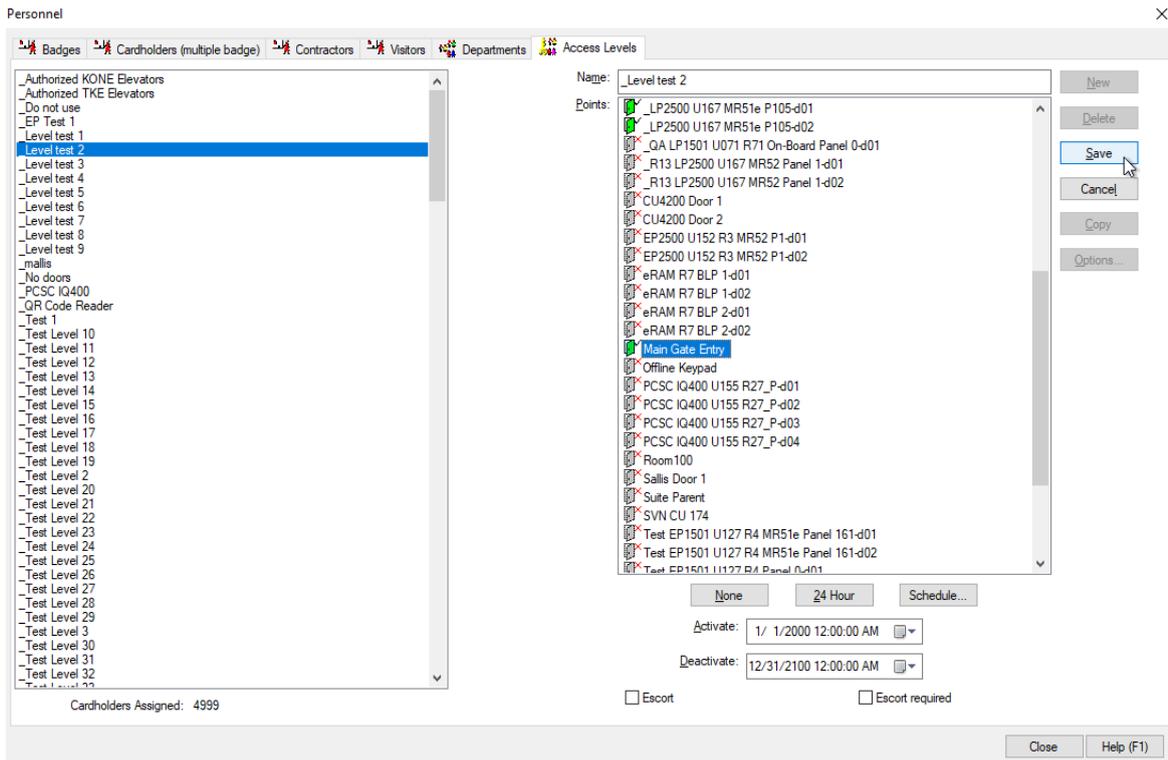


## Access Levels

Add the new doors to the required access level. Select Access Level under **Personnel > Access Levels**.

Figure 8 – Adding Doors to Access Levels

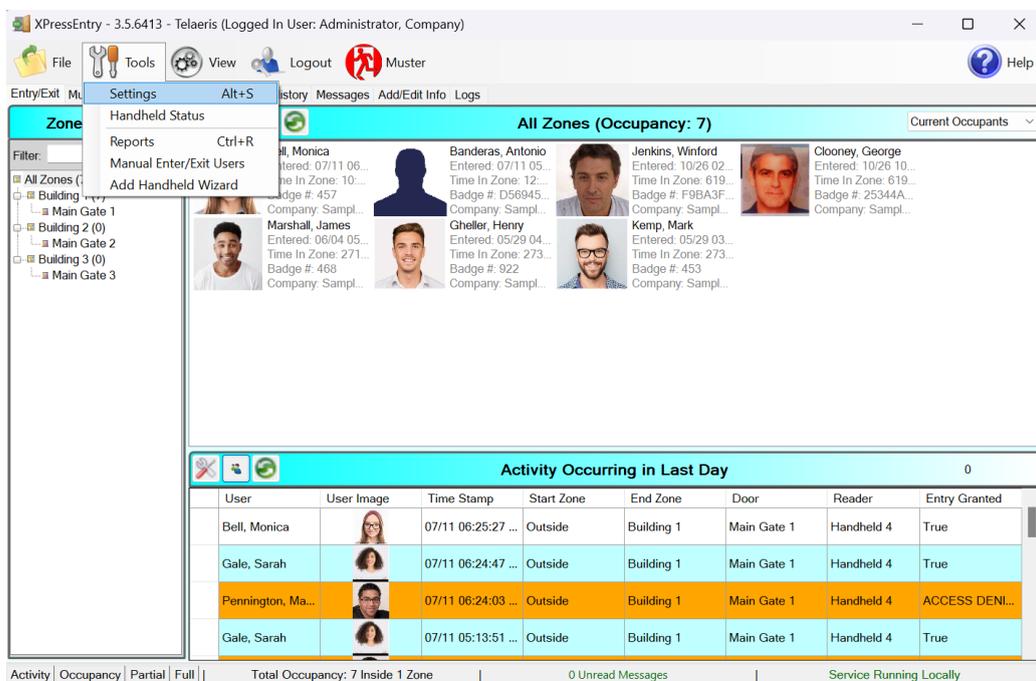




## Enable XPressEntry Synchronization

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

Figure 8 – XPressEntry

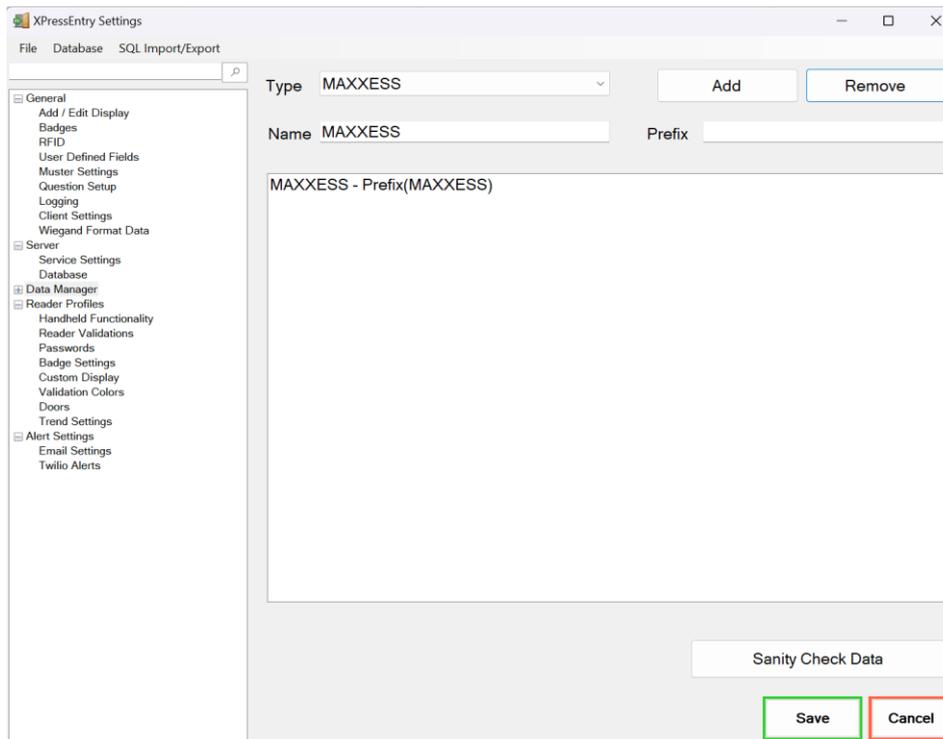


## Data Manager Tab

From the Settings page select the Data Manager Tab.

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

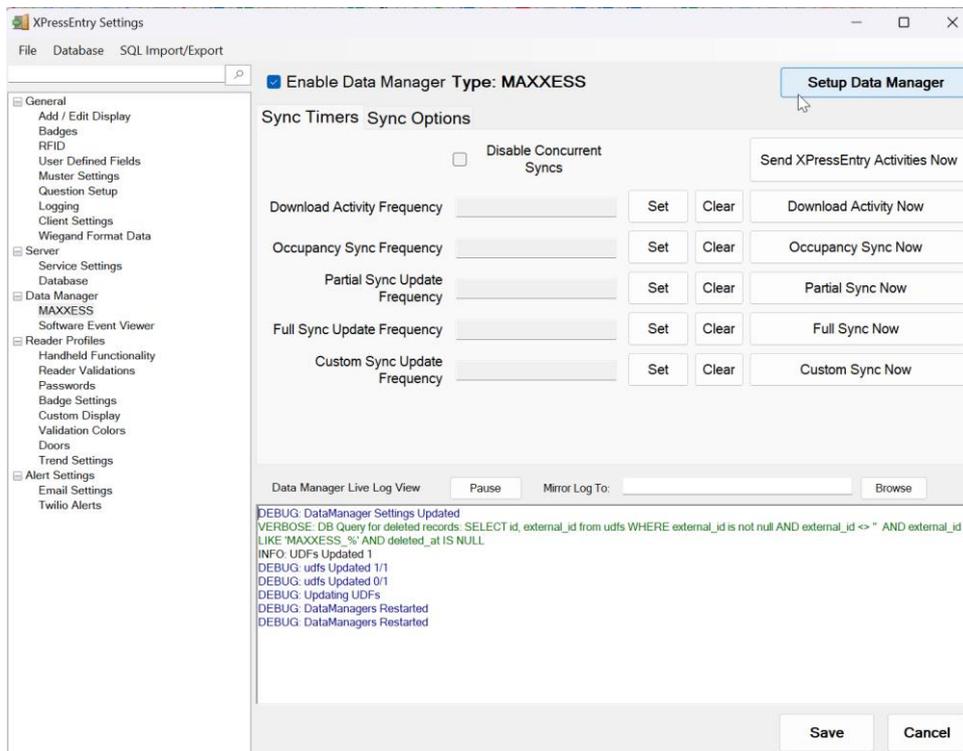
Figure 9 – Data Manager



## Sync Timers

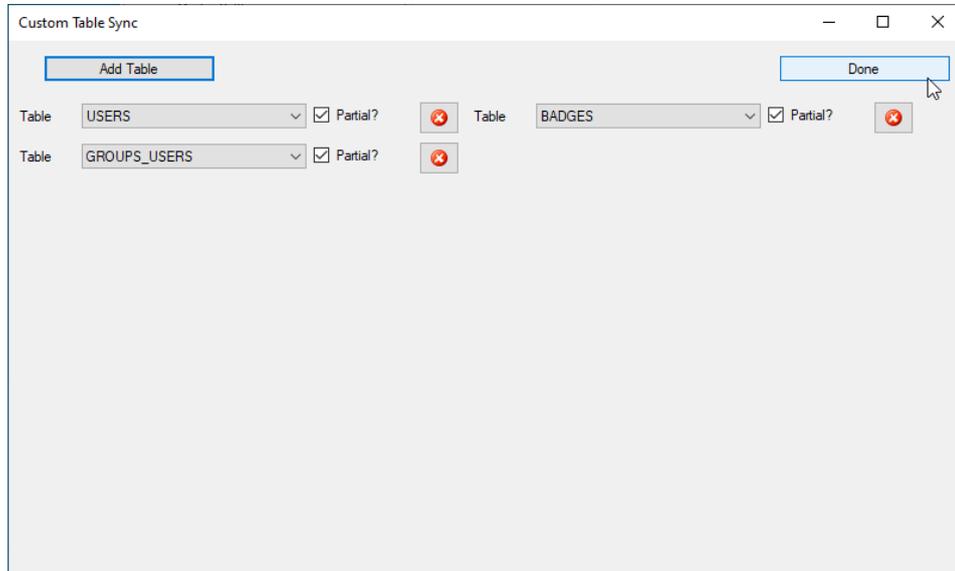
XPressEntry uses Timers to pull eFusion Data into XPressEntry.

Figure 10 – Enabled Data Manager + Sync Timers



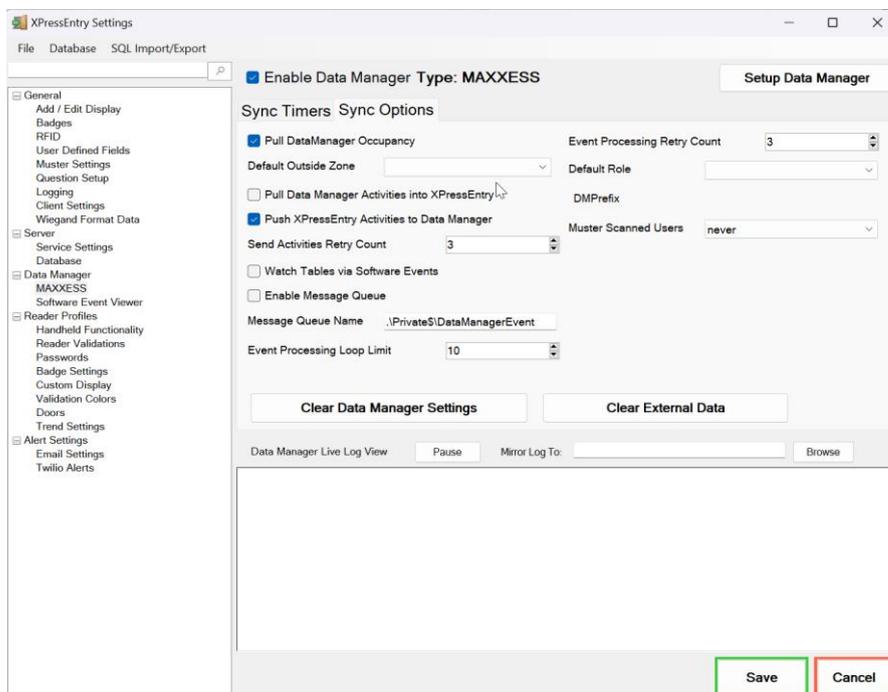
1. **Download Activity Frequency** – Pulls reader scan records into XPressEntry and stores them in XPressEntry’s activity table. This function also updates the zone occupancy.
2. **Occupancy Sync Frequency** – Updates the zone occupancy without storing the activity records.
3. **Partial Sync Frequency** – 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 eFusion. 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**. For a Maxxess integration, it is recommended to set the following:



## Sync Options

Figure 11 – Sync Options



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 eFusion.
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



over to XPressEntry badge fields and Badge Defined Fields (BDFs).

- i. Set your Source Column value (BDF Value from eFusion) to the Destination Column (Field in XPressEntry).
  - ii. Click the Plus Icon to Add it to the list below.
1. **Test Connect** – Test connection to the eFusion System. Connection Success will be displayed if a connection is established.
  - m. **Defaults** – Reset all settings to the default.

## XPressEntry Data

After setting up the data manager, run the initial **Full Sync** to pull data from eFusion. Once the eFusion 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 eFusion cannot be changed and is greyed out in XPressEntry without proper permissions.

## Users

Here is a sample of a properly synchronized user:

Figure 13 – Users

Badge	BDF1	Activated Date	Expired Date	Invalid	Badge Type
457		5/27/2020			
752		5/20/2020			

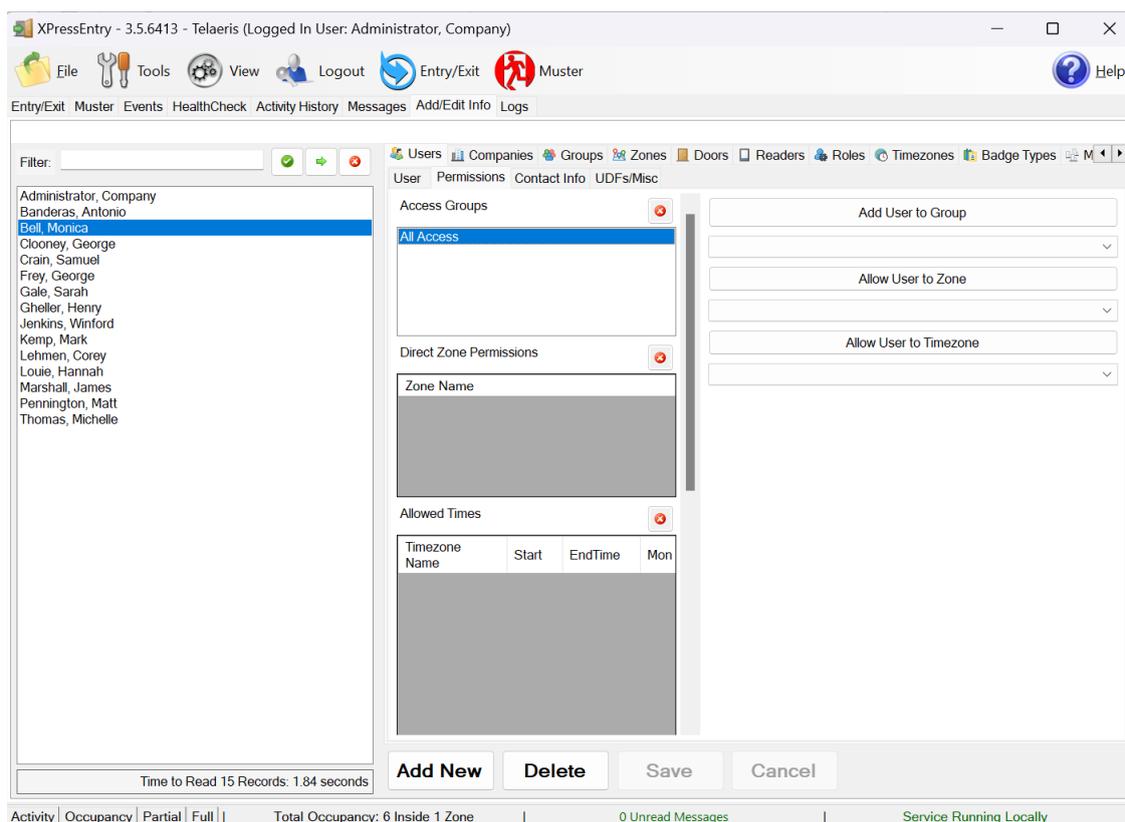
All External Records (From eFusion) will display in red as an **External Record** at the top of the form. This label will not display for any records that were created from within XPressEntry.

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

## User Permissions

Users in XPressEntry have the **same permissions** to each reader as they do in eFusion. This is regardless of whether the user is assigned an Access Code, Reader Group, or direct access to a Reader.

Figure 13 – Permissions



## Doors

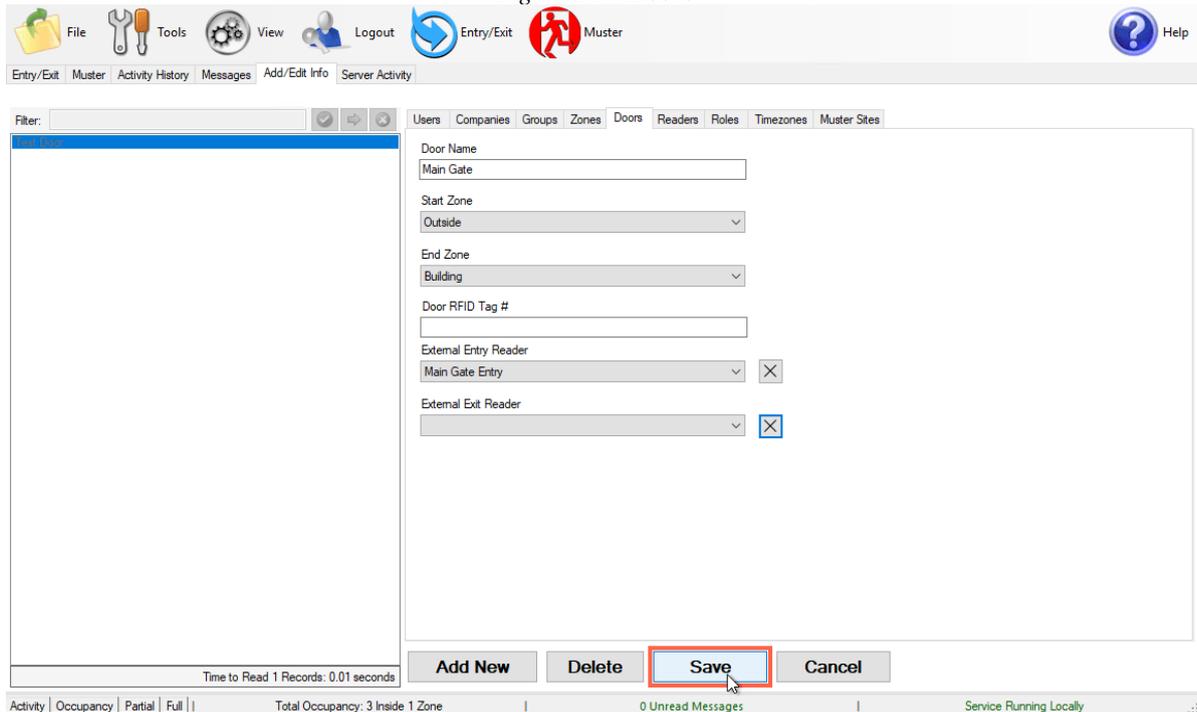
**Entry/Exit** permissions in XPressEntry are set by doors. Doors contain **two readers** – an exit and an entry reader.

**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 eFusion does not require additional start and end zones. If no zone is assigned, handheld activity will not populate to eFusion.

1. For each door, set the **start** zone to **Outside** and the **end** zone to **Building**. This helps to determine directionality.
2. For proper **occupancy tracking**, set the start and end zone to zones created in the **Zones tab**.
  - a. Start zone – The area the user will enter from.
    - i. **External Entry Reader** will be assigned to the eFusion Reader created for Entry.
  - b. End zone – The area end user will end up.
    - i. **External Exit Reader** will be assigned to the eFusion Reader created for Exit if there is one.
  - c. Attach the logical entry and exit door reader that you created in eFusion to a door. The readers are named based off the eFusion Door created.
  - d. You can also leave either the Entry or Exit reader blank if you are not utilizing the specific entry/exit mode.

Figure 14 – Doors



## Activities

XPressEntry will synchronize activities to eFusion if that option has been set by the Data Manager.

Entry/Exit activities will be sent to eFusion and display the results in the Transaction logs.

## Wiegand Formats for Maxxess Systems

Maxxess Stores card numbers in a FacilityCode-CardNumber format. This means we need to show XPressEntry how those cards are formatted.

Depending on the card format, you will need to do something like the below to modify the standard Wiegand formats to output the handheld badge numbers appropriately.

```
[Wiegand26]
Enabled = True
Reverse Byte Order = True
Number Bits = 26
Field 0 = Parity Even, 0, 1, LEFT_TO_RIGHT
Field 1 = Employee No, 1, 16, LEFT_TO_RIGHT
Field 2 = Facility Code, 17, 8, LEFT_TO_RIGHT
Field 3 = Parity Odd, 25, 1, LEFT_TO_RIGHT
Field 4 = Not Defined, 0, 0, LEFT_TO_RIGHT
Field 5 = Not Defined, 0, 0, LEFT_TO_RIGHT
Field 6 = Not Defined, 0, 0, LEFT_TO_RIGHT
Field 7 = Not Defined, 0, 0, LEFT_TO_RIGHT Parity Even Start = 1
Parity Even End = 12 Parity Odd Start = 13 Parity Odd End = 24
Output Format = %FACILITY_CODE%-%EMPLOYEE_NO%
```

