

XPressEntry

XPressEntry / Gallagher Command Centre

Revision 03/21/2024

For use with the
XPressEntry Mobile Access Control System

By



Contents

Purpose4

Pre-requisites/Requirements4

Setting Up Gallagher Command Centre to Synchronize with XPressEntry4

 Order of Operations7

Setup Gallagher Command Centre Data and Settings7

 Data Manager Tab7

 Sync Timers8

 Sync Options.....9

 Gallagher Data Manager Setup Page.....10

XPressEntry Data10

 Users11

 User Permissions11

 Doors12

 Activities.....12

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Purpose

This document is intended to instruct users on how to synchronize an XPressEntry system with a **Gallagher Command Centre** 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>.

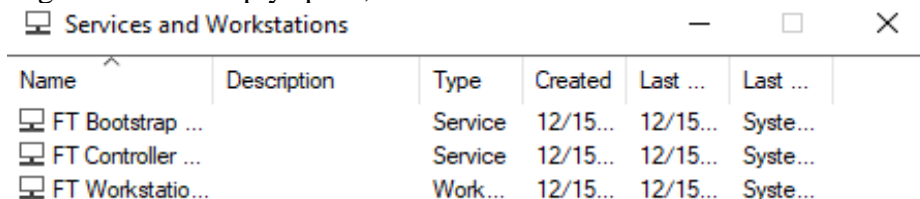
Pre-requisites/Requirements

1. Gallagher Command Centre v8.40+
2. XPressEntry 3.4+
3. Gallagher License Part Numbers for Command Centre REST API
 - a. C12707 LIC CARDHOLDER CHANGE TRACKING API
 - b. C12772 ALARMS AND EVENTS REST API
 - c. C12810 LIC STATUS REST API
 - d. C12812 LIC OVERRIDES REST API
 - e. C12820 INBOUND EVENTS REST API

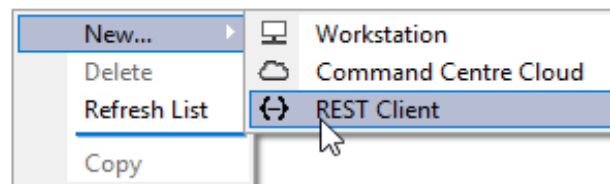
Setting Up Gallagher Command Centre to Synchronize with XPressEntry

It is assumed that Gallagher Command Centre is installed.

1. **Create XPressEntry Operator or use an existing Operator**
 - a. XPressEntry requires an Operator to be assigned to the REST client. Please create an XPressEntry operator or use an existing admin level operator.
2. **Create REST Client and Enable REST Client**
 - a. Open **Gallagher Configuration Client**.
 - b. Navigate to **Configure > Services & Workstations**
 - c. Right click the empty space, select **New > REST Client**



Name	Description	Type	Created	Last ...	Last ...
FT Bootstrap ...		Service	12/15...	12/15...	Syste...
FT Controller ...		Service	12/15...	12/15...	Syste...
FT Workstatio...		Work...	12/15...	12/15...	Syste...



- d. Set the Name to **XPressEntry**, or any desired name.

REST Client 1 - Properties

General

Item Type: REST Client

Name: XPressEntry

Description:

Division: Root Division

Created: 1/18/2024 3:52:05 PM

Last Modified:

Modified by: System Operator

OK Cancel Apply

- e. Navigate to **API Key** and assign the **REST Client Operator** that XPressEntry will utilize.

REST Client 1 - Properties

General

Event Response

Alarm Instructions

API Key

Connections

Icons

Notes

API Key: E83A-22FD-922D-5574-649F-CDEF-FAD1-8545

Client Certificate Thumbprint:

REST Client Operator: Admin, Telaeris

Refresh Operator privileges

REST privileges are cached and will not automatically update when an operator's privileges change. Be aware that refreshing operator privileges will interrupt any calls that are in progress.

☒ Enable REST Client

Disabling a REST API Client can be a useful short term correction when an integration is causing a major performance problem with Command Centre

OK Cancel Apply

- f. Ensure **Enable Rest Client** is checked. Click **OK**.
3. From Gallagher Configuration Client, navigate to **File > Server Properties > Web Services**. Check the “**Enable Local Network Connections**” under the REST API section. If you would like to set up a Certificate, please do so now. If you are **not using a certificate**, check the “**Enable REST Clients with no client certificate**.”

Telaeris Inc - DEMO - Properties

General

Command Centre Mobile App

Gallagher API Gateway is not enabled.

☐ Enable Local Network Connections

Server Base Port: 8901 Device Identification: TLS Client Certificate

Status: Data Port: Stopped

Manage Certificates...

REST API

Gallagher API Gateway is not enabled.

☒ Enable Local Network Connections

Server Base Port: 8904 ☐ Enable REST Clients with no client certificate

Status: Data Port: Stopped

Manage Certificates...

Visitor Management Server

Server Base Port: 4243

Status: Visitor Management Port: Running on 4243

OK Cancel Apply

4. Setup Door in Gallagher

- XPressEntry requires Gallagher doors to have an Entry and Exit zone.
- Open Gallagher Configuration Client.
- Navigate to **Configure > Doors**
- Add a new door for **each** XPressEntry **handheld**. An example name could be "Handheld 1" or "Handheld 1 Door."
- Assign the Entry and Exit Zone Access Zones to the door. Click OK.

Handheld 1 - Properties

General

Access Zone: Inside Facility

Entry is controlled by: ☒ Reader(s) ☐ Push button(s)

Reader(s): -- None Selected --

-- None Selected --

Disable feedback ☐ Turn off all warning/alarm sounds ☐

Terminal Display Message:

Access Granted:

Access Denied:

Access Denied (anti-passback):

Push button(s): -- None Selected --

-- None Selected --

Free handle ☐

OK Cancel Apply

Not fully configured.

5. **Setup or verify image Personal Data Field (PDF) is assigned to the Access Group**
 - a. To **pull photos** into XPressEntry, the cardholders must be a part of an access group with an image **Personal Data Field**. The name of the PDF will be added to the XPressEntry setup.

Order of Operations

1. Setup Gallagher Command Centre Data and Settings
2. Enable XPressEntry Synchronization
3. Set up XPressEntry Data

Setup Gallagher Command Centre Data and Settings

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

All Zones (Occupancy: 18)

User	Entered	Time In Zone	Badge #	Zone
Spears, Zachery	01/12 02:...	262	65926706	Building A
Howell, Jodi	01/12 02:...	262	67063314	Building A
Villarreal, Herb	01/12 02:...	262	203283...	Building A
David, Leola	01/12 02:...	262	48918354	Building A
Atkinson, Garland	01/12 02:...	262	66328498	Building A
Pineda, Leopoldo	01/12 02:...	262	218954...	Building A
Huang, Melissa	01/12 02:...	262	202257...	Building A
Robles, Deann	01/12 02:...	262	66519186	Building A
Frazier, Emma	01/12 02:...	262	65828882	Building A
Kleinhen, Donald	01/12 02:...	262	...	Building A
Raker, Rina	01/12 02:...	262	...	Building A
Vincent, Iva	01/12 02:...	262	...	Building A

Activity Occurring in Last Day

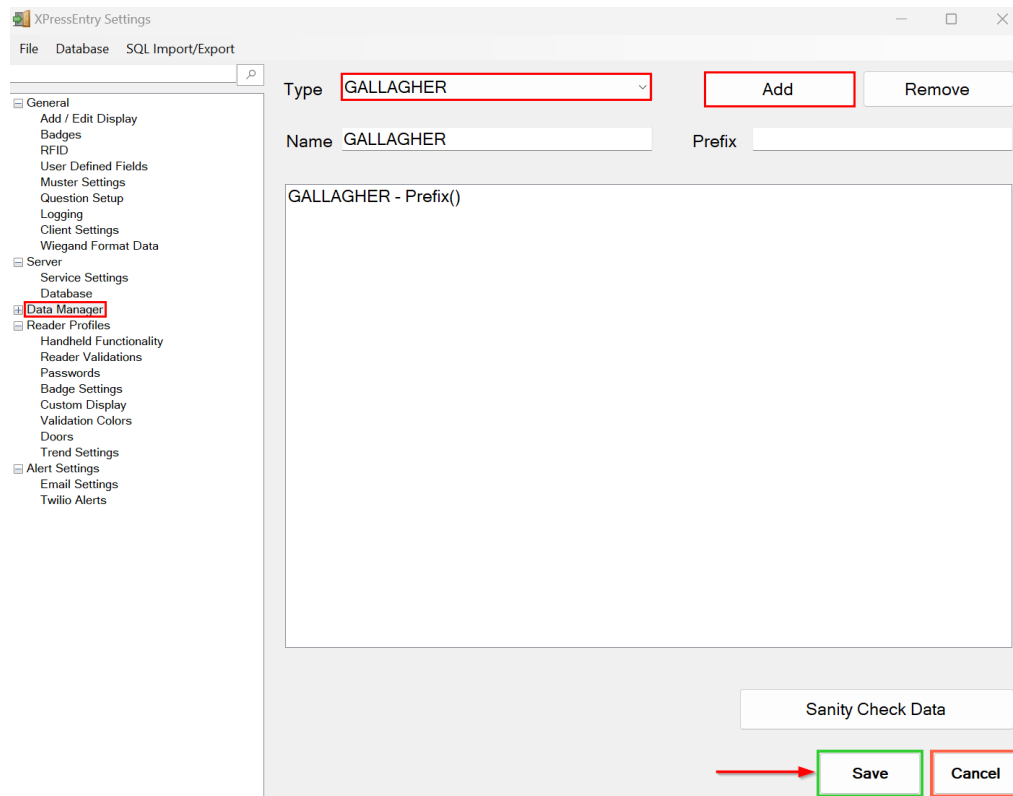
User	User Image	Time Stamp	Start Zone	End Zone	Door	Reader	Entry Granted
Spears, Za...		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
Howell, Jo...		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
Villarreal, ...		01/12 02:5...	Main Lobby	Building A	Door A	Handheld 2	True
David,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

Data Manager Tab

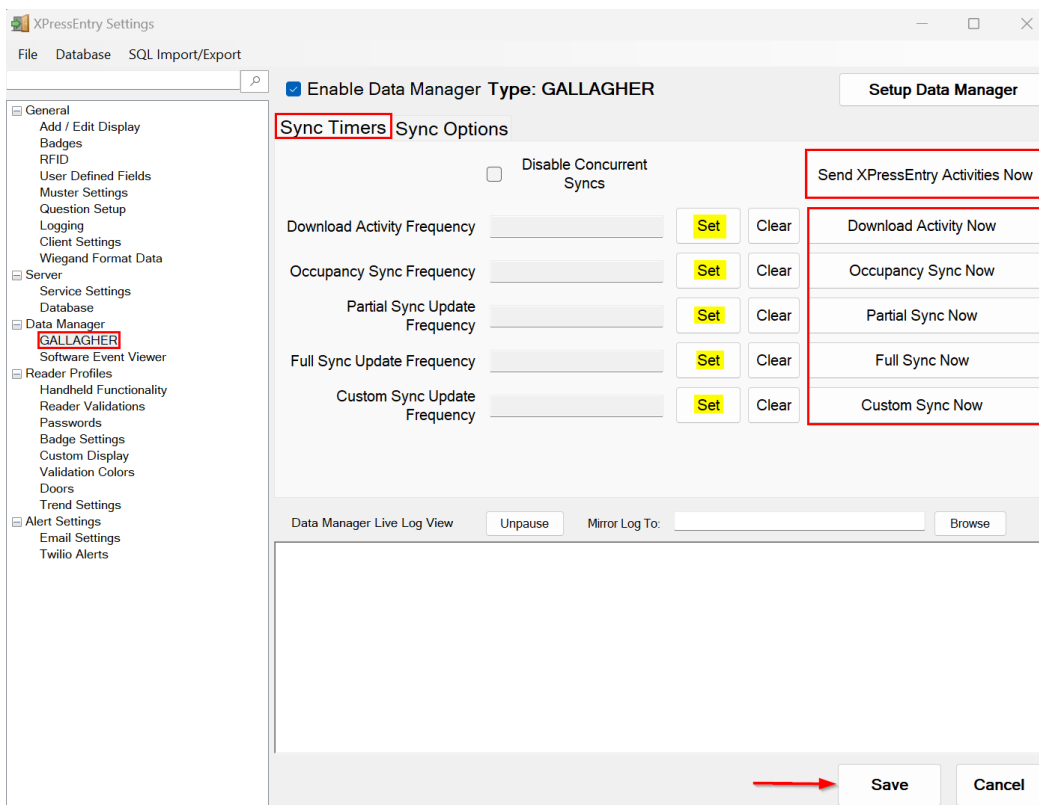
From the Settings page select the Data Manager Tab.

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



Sync Timers

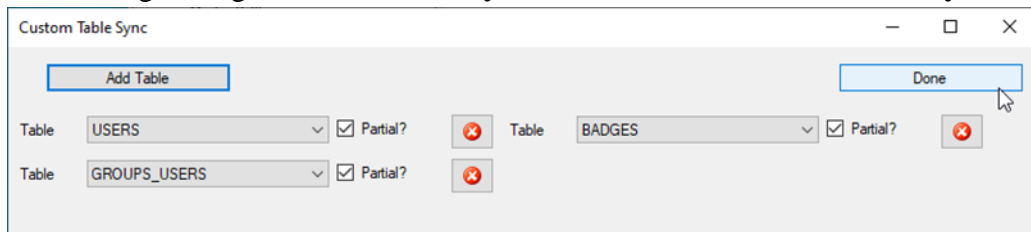
XPressEntry uses Timers to pull Gallagher Data into XPressEntry.



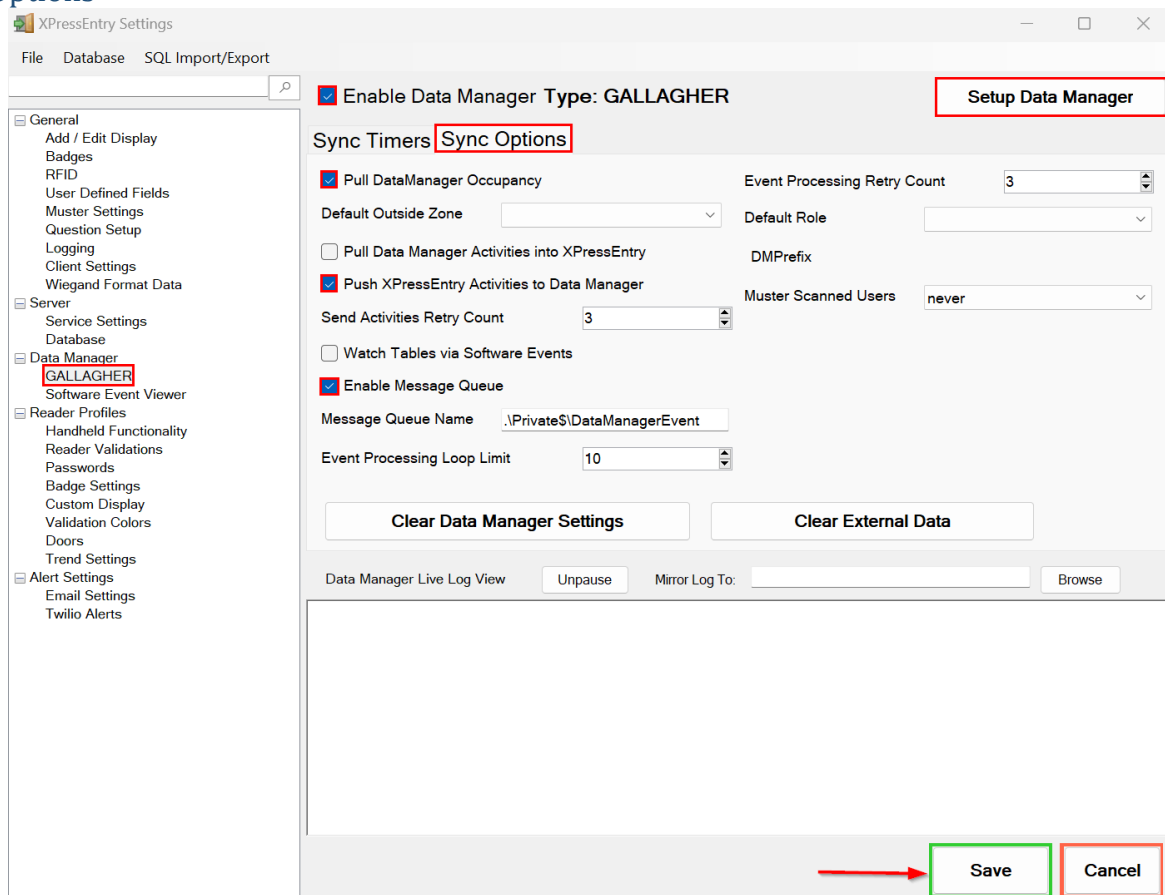
1. **Download Activity Frequency** – Pulls reader scan records into XPressEntry and stores them in XPressEntry's activity table. This function also updates the zone occupancy.
2. **Occupancy Sync Frequency** – Updates the zone occupancy without storing the activity records.
3. **Partial Sync Frequency** – Pulls all data excluding cardholder data, including readers, areas,

access levels.

4. **Full Sync Update Frequency** – Updates all tables by pulling all necessary records from Gallagher. 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



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 Gallagher Command Centre.
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 DataManager Button** – Opens Gallagher Command Centre specific settings.

8. **Clear DataManager Settings** – Resets all settings on the two above tabs, as well as the Gallagher Command Centre specific settings.
9. **Clear External Data** – Deletes all data synced from Gallagher Command Centre from the XPressEntry Database.

Gallagher Data Manager Setup Page

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

Gallagher Data Manager

Hostname or IP: localhost

Port: 8904

API Key: [Masked]

Pagination: 100

Photo Field Name: Photo

☒ Enable Event on Scan

☒ Enable Location Update on Scan

☐ Enable Debug Logging

Test Connect Defaults OK

Status

1. **Hostname or IP** – IP address of the system where Gallagher server is hosted.
2. **Port** – API Port for Gallagher Server.
3. **API Key** - Found in the Gallagher Configuration Client under **Services & Workstations > XPressEntry > API Key**.
4. **Pagination** – Max Pagination size per API query. **100** is recommended.
5. **Photo Field Name** – Field name tied to the Gallagher Access Level used to synchronize cardholder photos.
6. **Enable Debug Loggin** – Used for additional logging if required
7. **Enable Event on Scan** – Sends an alarm to Gallagher for each Access Granted and Access Denied event
8. **Enable Location Update on Scan** – Moves the cardholder to the area in Gallagher based on the Access Granted event badge scan

Click **Test Connect** after entering all the data correctly. This will connect to the Gallagher Command Centre system using the given user's name and password.

The result will display **Connection Success!** if connected to Gallagher successfully. If there is any error in the connection it will show in the same result window.

XPressEntry Data

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

Users

Here is a sample of a properly synchronized user:

XPRESSEntry (Administrator) - 3.5.6564 - Telaeris (Logged In User: Administrator, Company)

File Tools View Logout Entry/Exit Muster Help

Entry/Exit Muster Events Activity History Messages Add/Edit Info Logs

Filter: [Search]

Administrator, Company
Atkinson, Garland
Ayers, Tami
Baker, Rico
Benjamin, Cody
Bright, Tilly
Campos, Silas
Clay, Billie
David, Leola
Frazier, Emma
Glenn, Malik
Howell, Jodi
Huang, Melissa
Johnson, Bill
Kemp, Allie
Kemp, Genaro
Kleinhen, Donald L.
Luna, Rosanne
Lynch, Esther
Mcgee, Adan
Merritt, Theo
Mora, Juliana
Pineda, Leopoldo
Robles, Deann
Rojas, Everly
Rosales, Mary
Sanders, Erin
Sawyer, Quinn
Smith, Jane
Smith, John
Spears, Zachery
Stanley, Kade
Stevenson, Layla
Swanson, Robbie
Thornton, Sefa
Villa, Dominik

Time to Read 42 Records: 0.88 seconds

Activity | Occupancy | Partial | Full | | 0 Unread Messages | Service Running Locally

First Name Last Name MI Photo FP
Silas Campos

Company
Emp ID Visitor
Zone Outside Host
Zone Entry: 03/08 08:25:57 AM
Last Reader:

Role Entrant
Start Date
End Date

Badges (0) Add Badge Delete Badge View History Print Badge

Badge	Activated Date	Expired Date	Invalid	Badge Type
66979890	12/12/2023			

Add New Delete Save Cancel

All External Records (From Gallagher Command Centre) 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 Gallagher Command Centre. 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 Gallagher Command Centre. This is regardless of whether the user is assigned an Access Code, Reader Group, or direct access to a Reader.

XPRESSEntry (Administrator) - 3.5.6564 - Telaeris (Logged In User: Administrator, Company)

File Tools View Logout Entry/Exit Muster Help

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Huang, Melissa
Johnson, Bill
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Kemp, Genaro
Kleinhen, Donald L.
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Lynch, Esther
Mcgee, Adan
Merritt, Theo
Mora, Juliana
Pineda, Leopoldo
Robles, Deann
Rojas, Everly
Rosales, Mary
Sanders, Erin
Sawyer, Quinn
Smith, Jane
Smith, John
Spears, Zachery
Stanley, Kade
Stevenson, Layla
Swanson, Robbie
Thornton, Sefa
Villa, Dominik

Time to Read 42 Records: 0.88 seconds

Activity | Occupancy | Partial | Full | | 0 Unread Messages | Service Running Locally

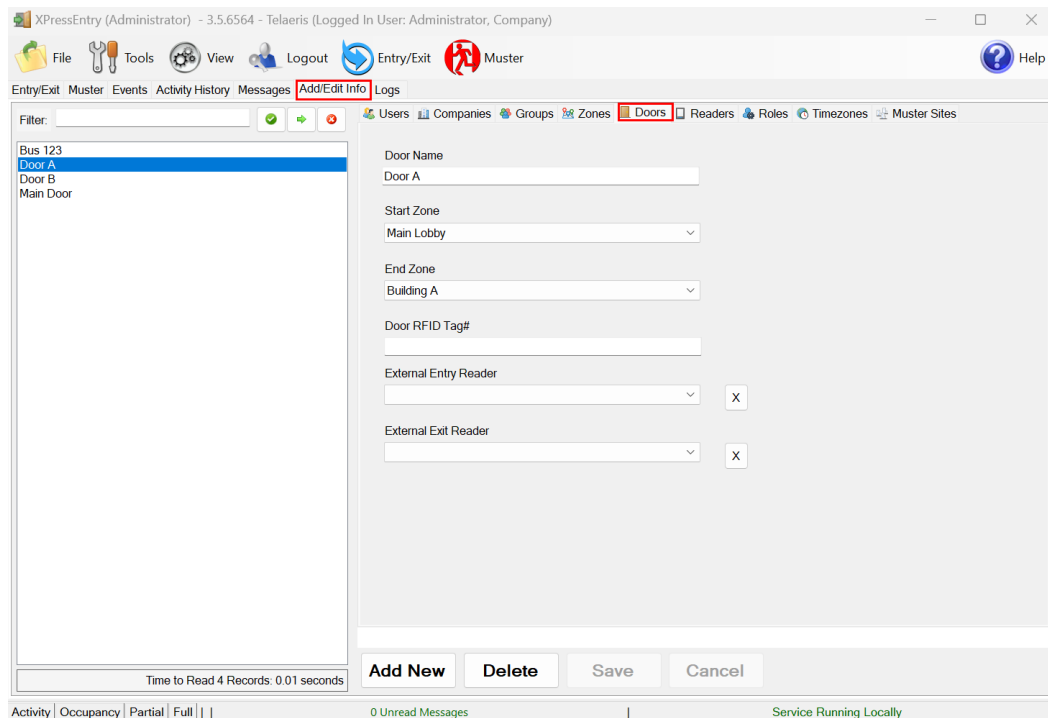
Access Groups
All Access
Bus Access
Group A
Add User to Group
Allow User to Zone
Allow User to Timezone

Direct Zone Permissions
Zone Name

Allowed Times
Timezone Name Start EndTime Mon

Add New Delete Save Cancel

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.

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 Gallagher Reader created for Entry.
 - b. End zone – The area end user will end up.
 - i. **External Exit Reader** will be assigned to the Gallagher Reader created for Exit if there is one.

Activities

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

Entry/Exit activities will be sent to Gallagher and display the results in the **Transaction logs** as an **alarm**. There is also the option to update the **cardholder location** within Gallagher based on the handheld badge scan.