

# ***XPRESSENTRY***

## Brivo OnAir® Integration Documentation

By



Revision 04/30/2025

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## Contents

Purpose .....	4
Pre-requisites/Requirements.....	4
Limitations .....	4
Order of Operations.....	4
Set up Brivo OnAir® Data and Settings.....	4
Locating Required Information from Brivo OnAir® .....	4
Integrating Brivo OnAir® with XPressEntry .....	6
Enable XPressEntry Synchronization.....	7
Data Manager Tab.....	8
Reader Profile Tab .....	9
Sync Timers .....	10
Sync Options.....	11
Brivo OnAir® Data Manager Setup Page.....	12
Set up XPressEntry Data.....	13
XPressEntry Data .....	13
Sync Check .....	13
Doors .....	14
Readers .....	15
Users .....	16
User Permissions.....	17
Groups.....	18
Configuring XPressEntry Using Brivo OnAir® Data.....	20
Doors .....	20
Readers.....	21

## Purpose

This document is intended to instruct users on how to synchronize an XPressEntry system with a Brivo OnAir® 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 3.6.6974+
2. Verified with Brivo OnAir® version 20250417
3. Windows 10+ or server equivalent

## Limitations

1. API does not allow pushing badge scan events from XPressEntry to Brivo OnAir® as a normal event
2. API does not allow live data changes (such as user, card, or group updates) to sync to XPressEntry.

## Order of Operations

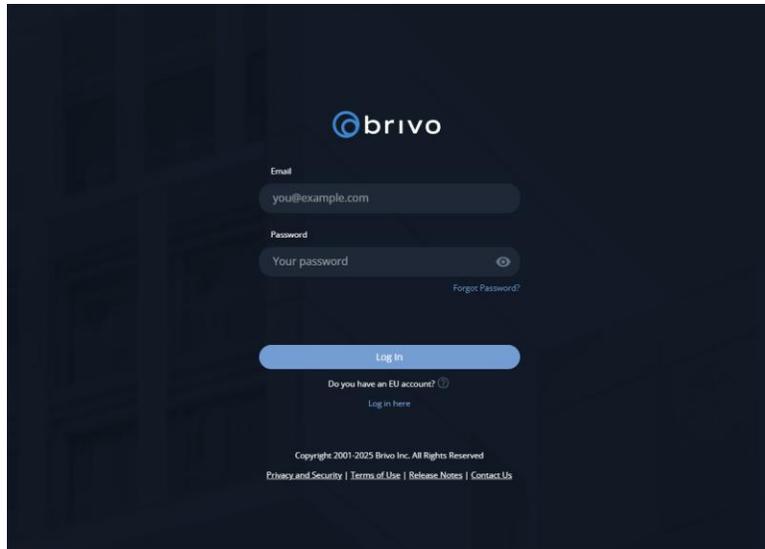
1. Set up Brivo OnAir® Data and Settings
2. Enable XPressEntry Synchronization
3. Set up XPressEntry Data

## Set up Brivo OnAir® Data and Settings

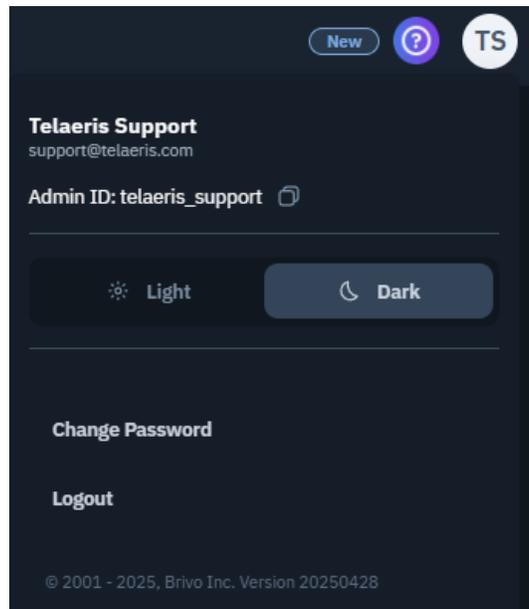
It is assumed that Brivo OnAir® is available to the XPressEntry server. XPressEntry has been tested and verified with Brivo OnAir® version 20250417. Please contact Telaeris to confirm compatibility with integrations into newer versions of Brivo OnAir®.

## Locating Required Information from Brivo OnAir®

1. Go to <https://access.brivo.com/>.



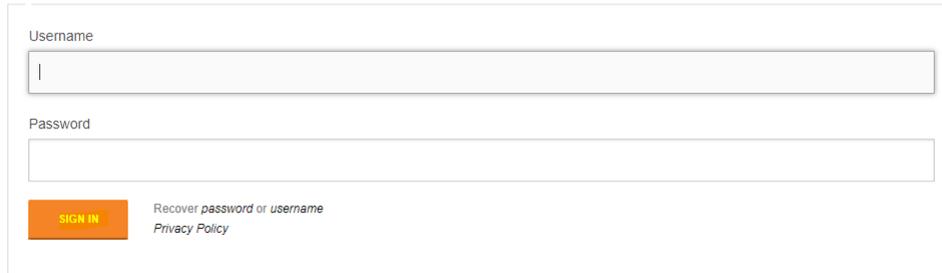
2. Click the profile picture for your account in the bottom left corner and write down the Admin ID that appears. This will be used for a later step.



3. Open a new tab and go to <https://developer.brivo.com/login>.
4. Enter your developer API Management ID (not an email address) and password and click Log In.

## Sign In

### Sign in to Brivo API Platform using an API Management ID



Username  
|

Password

**SIGN IN** [Recover password or username](#)  
[Privacy Policy](#)

5. Now, navigate to <https://developer.brivo.com/apps/mykeys>.
6. Write down the developer API key displayed on the page.

## My API Keys

[KEYS](#) | [APPLICATIONS](#) | [MANAGE ACCOUNT](#)

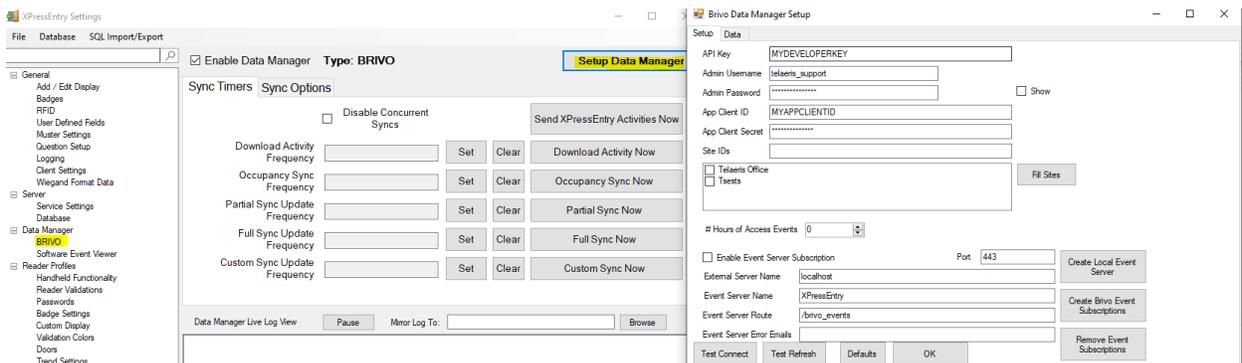
### Brivo OnAir API: Developer Test Plan

Key: **MYDEVELOPERAPIKEY**

Application  
Telaeris XPressEntry

## Integrating Brivo OnAir® with XPressEntry

1. In XPressEntry settings, go to Data Manager > Brivo, and then select Setup Data Manager.



2. For "API Key", enter the API key from Step 8.
3. For "Admin Username", enter the "Admin ID" from step 4.
4. For "Admin Password", enter the Brivo Access password in Step 3.

5. Note: App Client ID and App Client Secret are provided when the application is created in Brivo ACS. Since Brivo ACS was replaced with Brivo Access, Brivo has not created a new method to get these items, but if the previous values from Brivo ACS are known, then they will continue to work.
6. Click the "Save Changes" button in Brivo OnAir® Data Manager Setup in XPressEntry to confirm the credentials and perform a sync if needed.

## Enable XPressEntry Synchronization

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

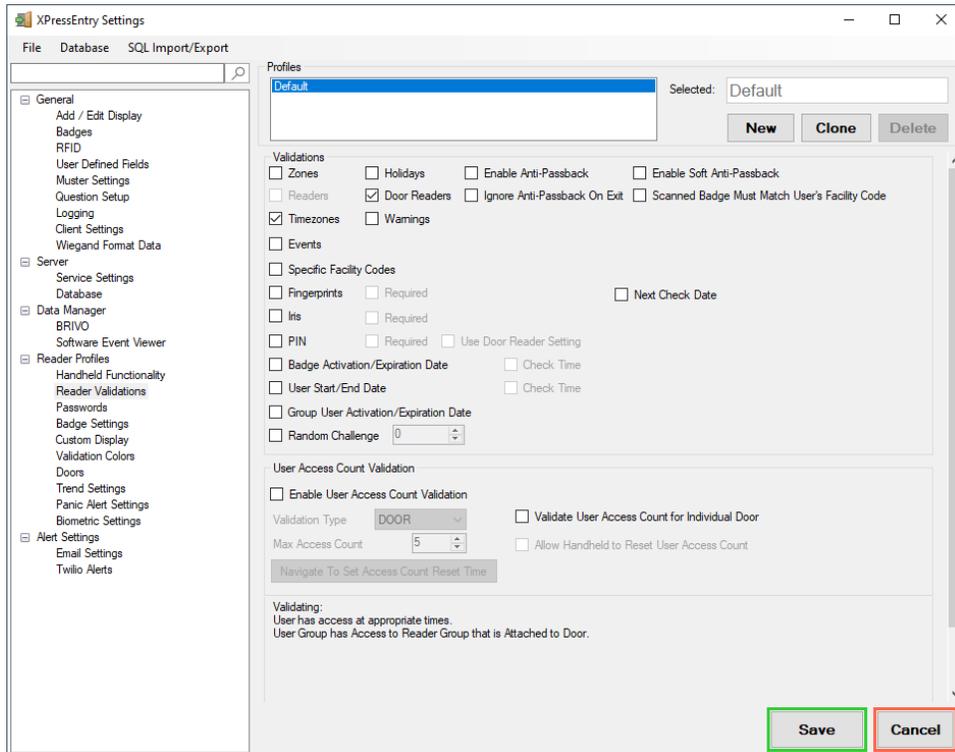
## Data Manager Tab

From the Settings page select the Data Manager Tab.

The screenshot shows the 'XPressEntry Settings' application window. The 'Database' menu is selected, and the 'Data Manager' section is expanded in the sidebar. The 'BRIVO' option is selected, and the 'BRIVO - Prefix()' entry is highlighted in the main list. The 'Type' dropdown is set to 'BRIVO', and the 'Name' field contains 'BRIVO'. The 'Add' and 'Remove' buttons are visible. At the bottom, there are 'Check Data Integrity', 'Save', and 'Cancel' buttons.

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

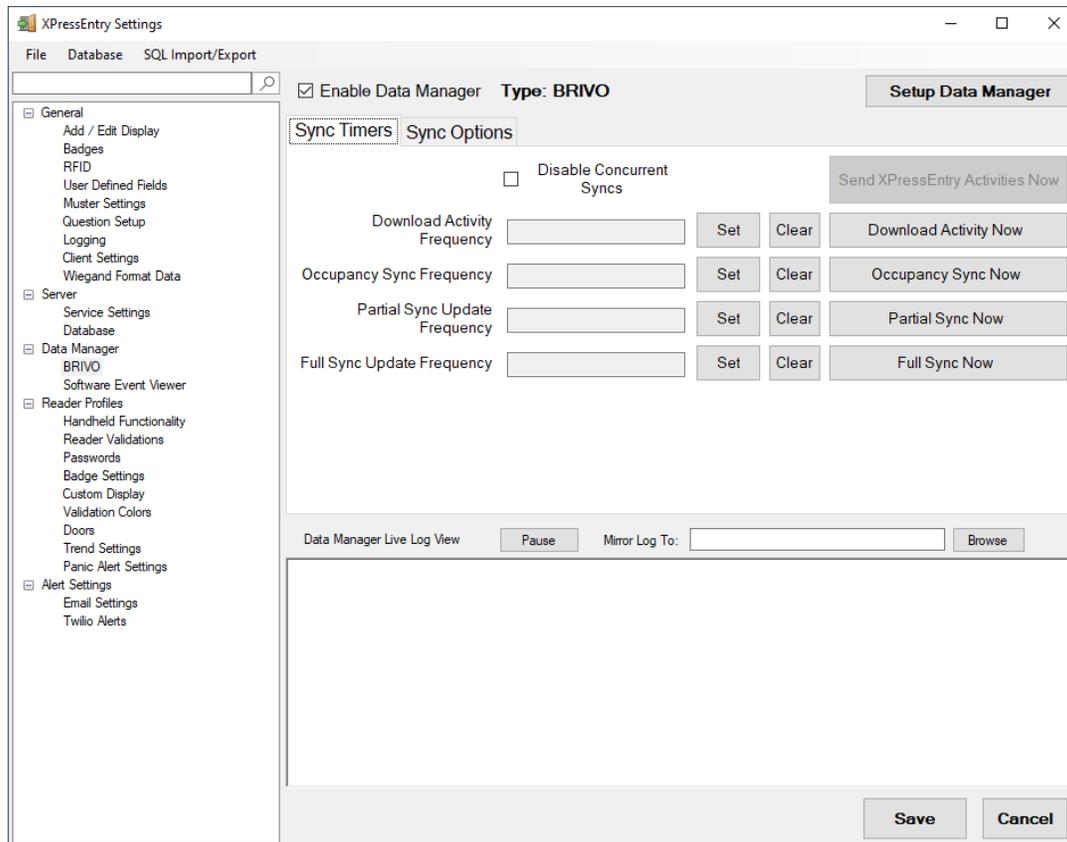
## Reader Profile Tab



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

## Sync Timers

XPressEntry uses timers to pull Brivo OnAir® 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 Brivo OnAir®. 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

The screenshot shows the 'XPressEntry Settings' application window. The 'Sync Options' tab is active, displaying various configuration options for data synchronization. The 'Enable Data Manager' checkbox is checked, and the 'Type' is set to 'BRIVO'. The 'Setup Data Manager' button is visible. The 'Sync Options' section includes: 'Pull Data Manager Occupancy' (checked), 'Event Processing Retry Count' (3), 'Default Outside Zone' (Outside), 'Default User Profile' (Entrant), 'Pull Data Manager Activities into XPressEntry' (checked), 'Muster Scanned Users' (never), 'Push XPressEntry Activities to Data Manager' (checked), 'Send Live Activities to Data Manager' (unchecked), 'Enable Automatic Badge Activity Delete' (unchecked), 'Send Activities Retry Count' (3), 'Badge Activity Delete Timeframe' (None), 'Watch Tables via Software Events' (checked), 'Enable Message Queue' (checked), 'Message Queue Name' (\\Private\$BrivoDataManagerEver), 'Event Processing Loop Limit' (10). There are two buttons: 'Clear External Data' and 'Clear External Badge Activity'. At the bottom, there is a 'Data Manager Live Log View' section with a 'Pause' button and a 'Mirror Log To:' field with a 'Browse' button. 'Save' and 'Cancel' buttons are at the bottom right.

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 – Not available in Brivo OnAir® APIs.
4. Default User Profile – The default XPressEntry user profile that will be assigned to users. Entrant is recommended but not required.
5. 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.
6. Enable Badge Activity Delete – Will remove Brivo OnAir® activities from the XPressEntry database (e.g. daily, weekly, monthly).
7. Setup DataManager Button – Opens Brivo OnAir® specific settings.
8. Clear DataManager Settings – Resets all settings on the two above tabs, as well as the Brivo OnAir® specific settings.
9. Clear External Data – Deletes all data synced from Brivo OnAir® from the XPressEntry Database.

## Brivo OnAir® Data Manager Setup Page

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

Brivo Data Manager Setup

Setup Data

API Key

Username: telaeris\_support  Show

Password

App Client ID

App Client Secret

Site IDs

Telaeris Office  
 Tseests

HTTPS Port: 6080

External Server Name

Event Server Name: XPressEntry

Event Server Route: /brivo\_events

Event Server Error Emails

1:28:34 PM : Connection Success!

The Brivo OnAir® Data Manager Setup page in XPressEntry includes the following fields:

- **API Key**: Enter the API key generated from your Brivo OnAir® developer account.
- **Admin Username**: Enter the Admin ID (found in Brivo Access).
- **Admin Password**: The corresponding Brivo Access password.
- **App Client ID / Secret**: (Optional) Used only if you have these values from the legacy Brivo ACS setup. If not available, leave blank.

Click Test Connect after entering all the data correctly. This will connect to the Brivo OnAir® system using the given user's name and password.

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

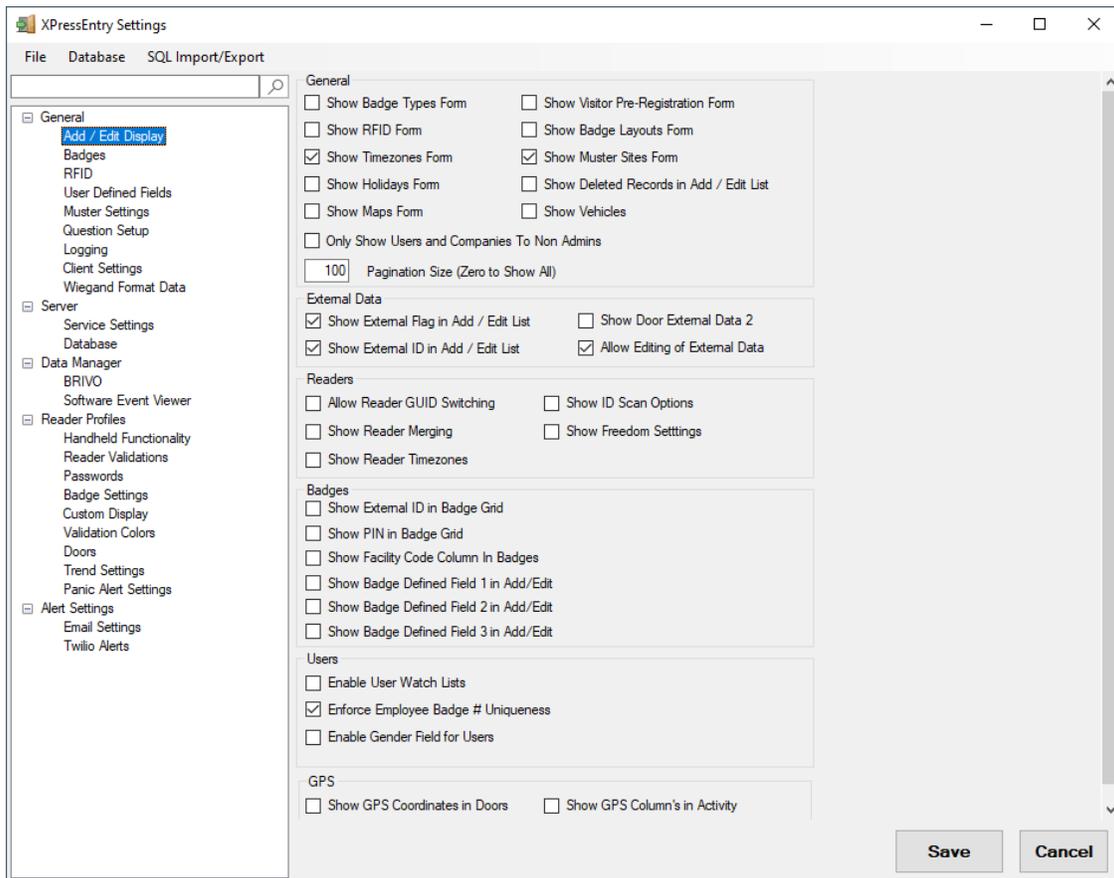
Press "Save Changes" to close the form. On the Data Manager tab of the Settings form, select Save. It is now time to begin syncing data.

# Set up XPressEntry Data

## XPressEntry Data

After setting up the data manager, run the initial Full Sync to pull data from Brivo OnAir®. Once the Brivo OnAir® 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 Brivo OnAir® cannot be changed and is greyed out in XPressEntry without proper permissions. To allow for editing of data, please refer to XPressEntry Settings > General > Add/Edit Display.



## Sync Check

The purpose of this section is to help the operator understand exactly what data XPressEntry is pulling from Brivo OnAir®. For a quick setup, please navigate to the next section – Configuring XPressEntry Using Brivo OnAir® Data.

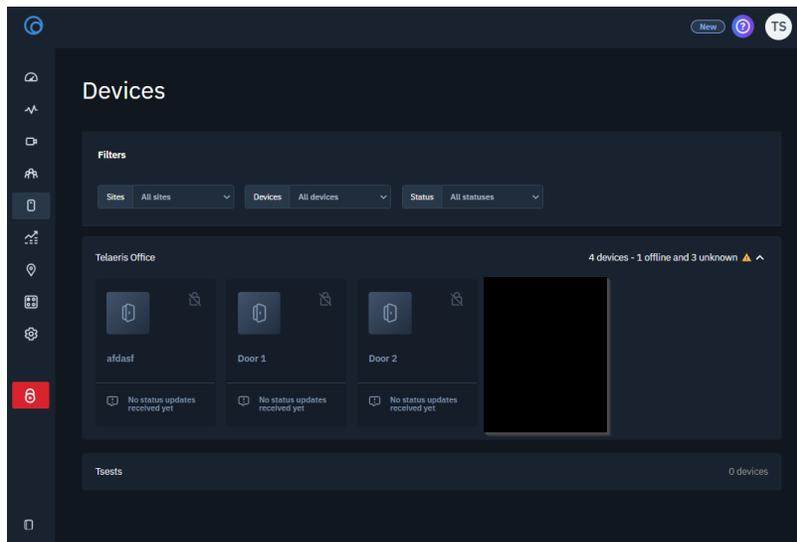
Below are the Mapping details of each Data pulled from Brivo OnAir®.

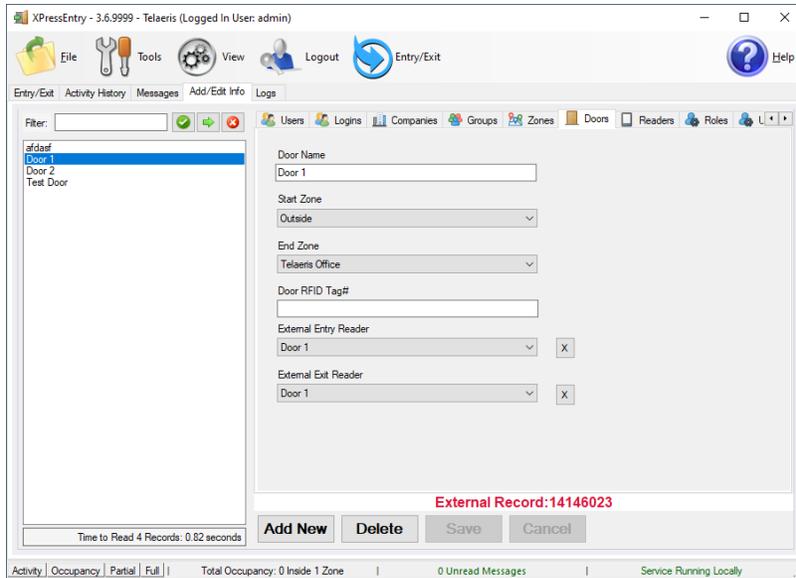
Brivo OnAir®	XPressEntry
Doors	Doors
Doors	Readers
Users	Users
Credentials	Badges
Schedules	Time Zones
User Groups	Groups

## Doors

All Doors should be available to view in the Doors tab under Add / Edit Info.

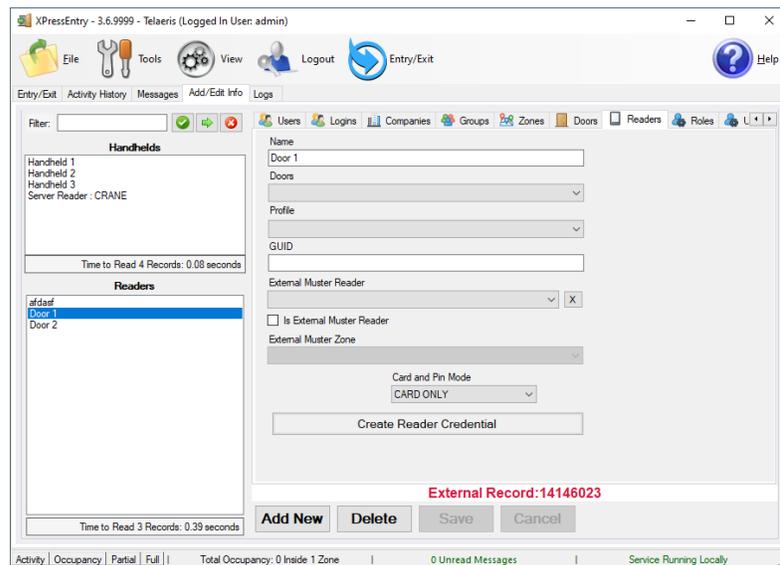
Here is a sample of a properly synchronized doors:





## Readers

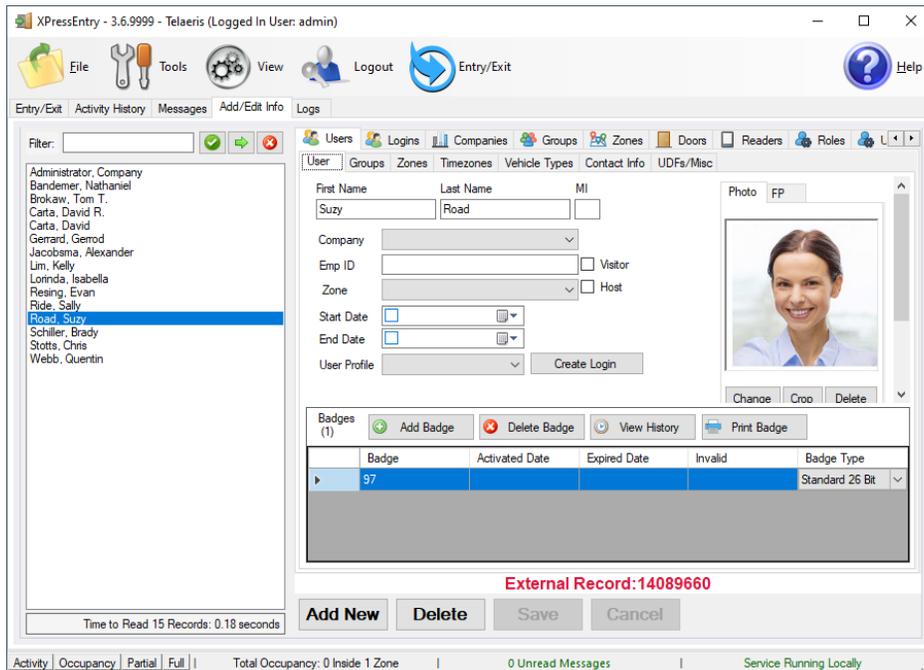
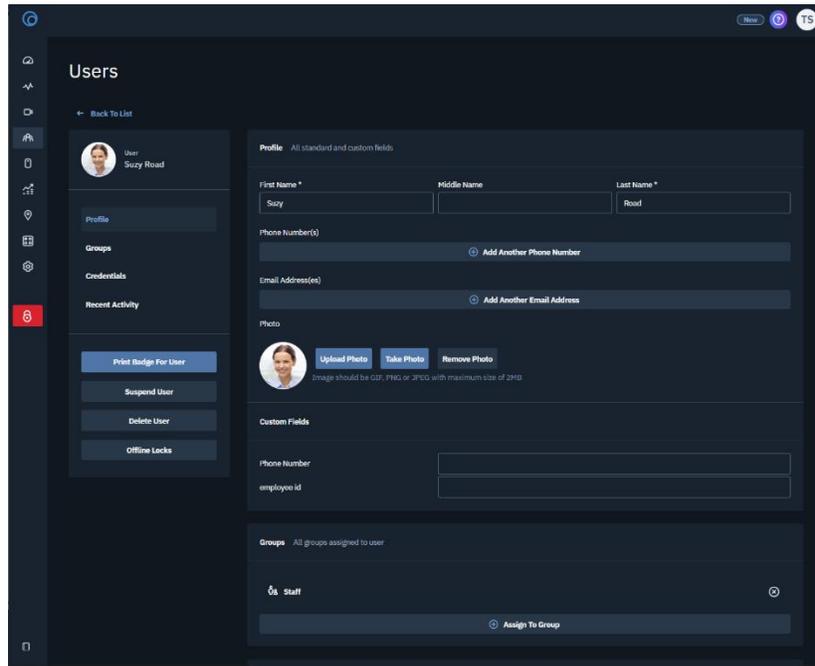
Since Brivo OnAir® does not have separate readers, readers are created from each door in XPressEntry automatically.



## Users

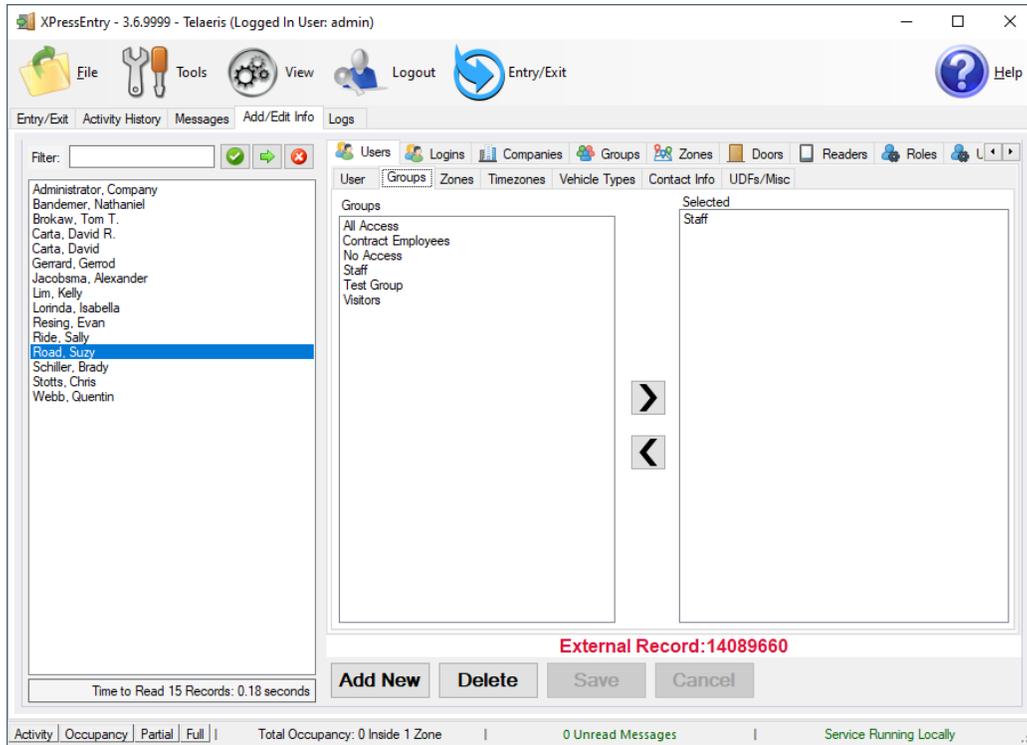
Here is a sample of a properly synchronized user:

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



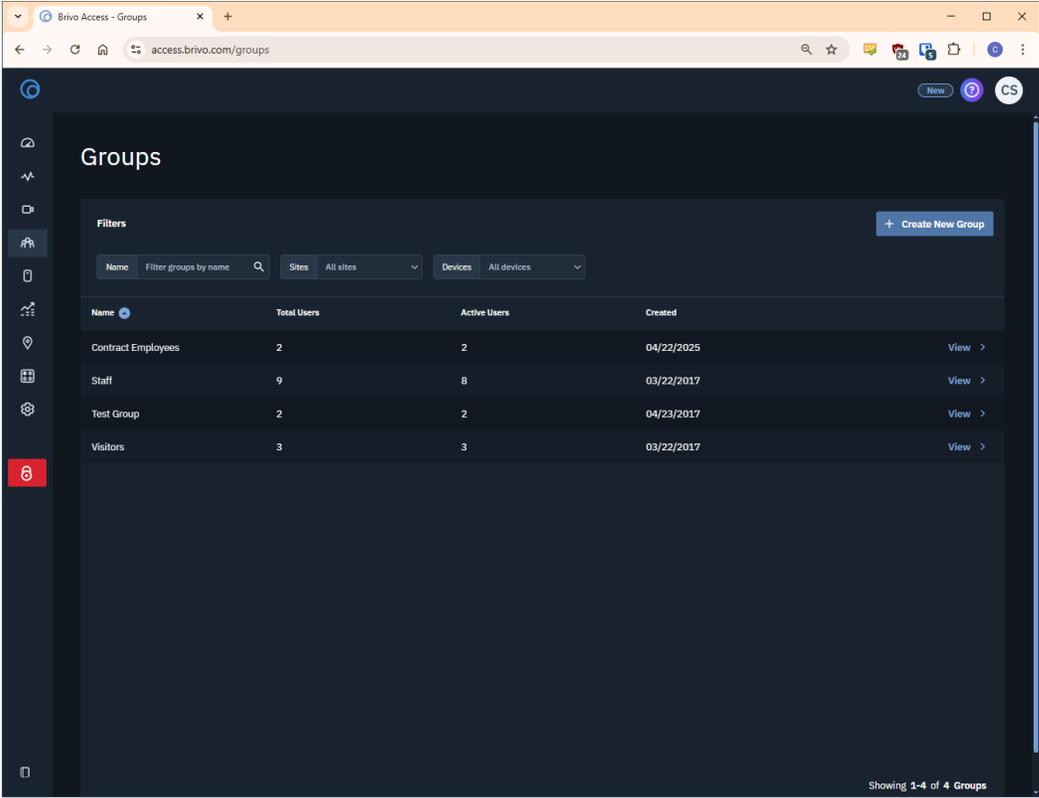
## User Permissions

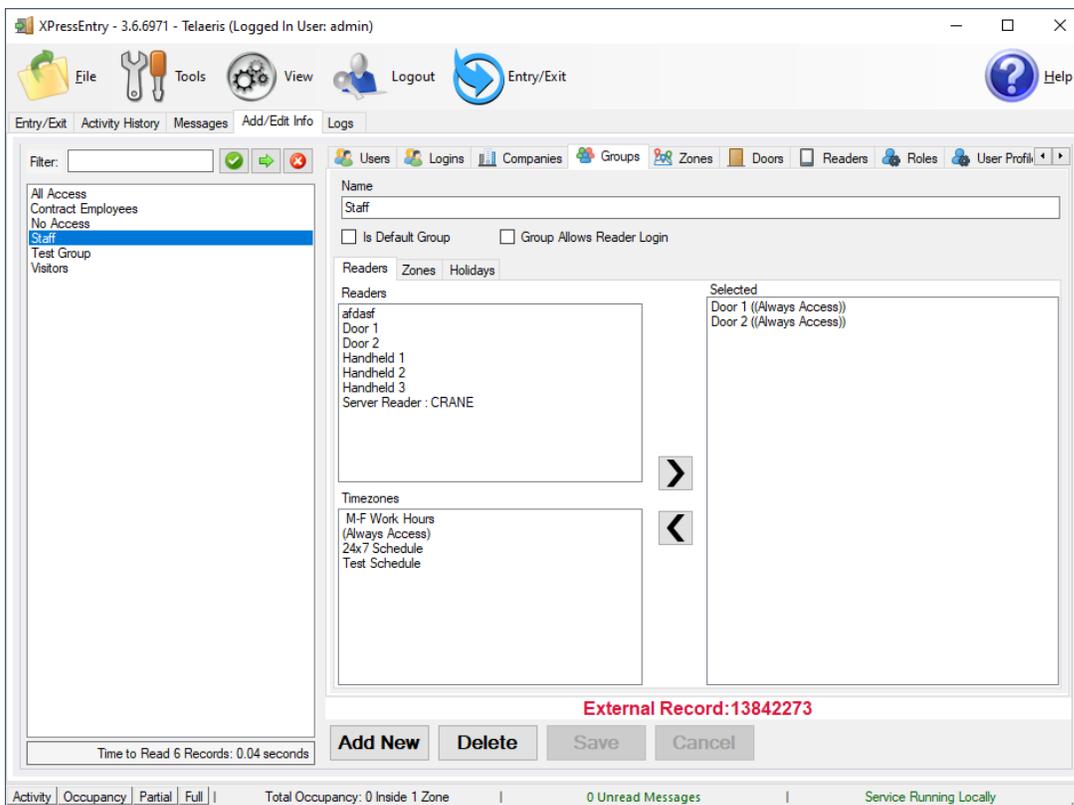
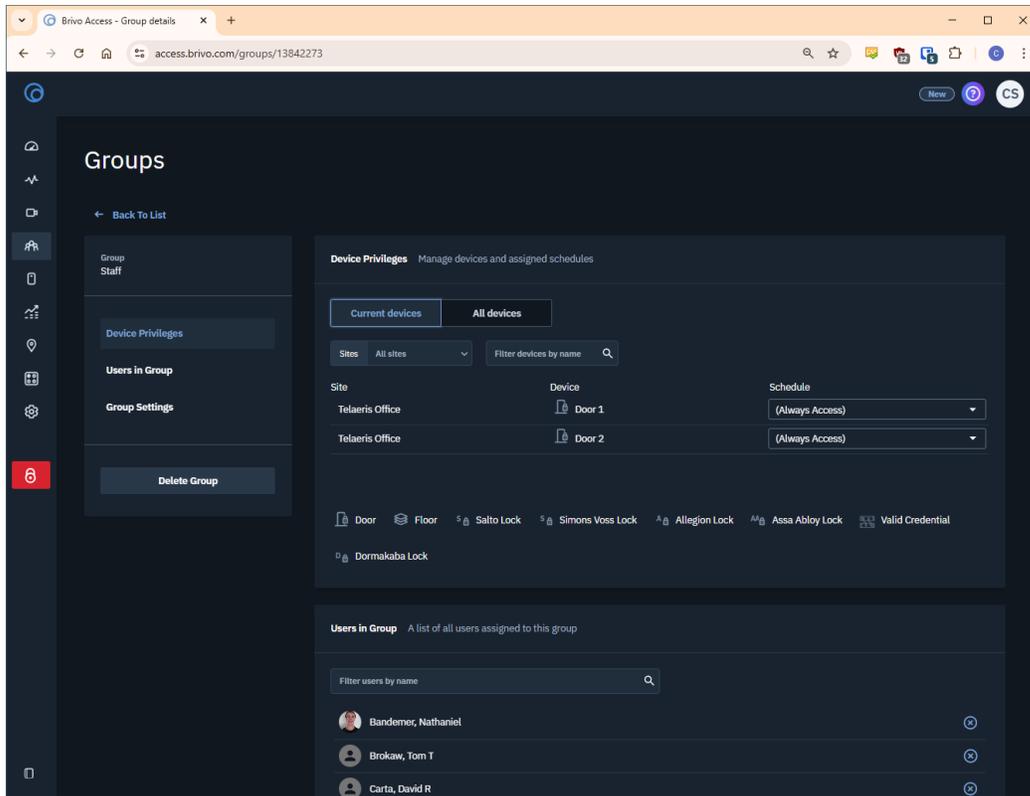
Here is a sample of properly synchronized user permissions:



# Groups

User Groups has been mapped to Groups, and readers have been included in each group according to the door group.





## Configuring XPressEntry Using Brivo OnAir® Data

Now that XPressEntry has access to the Brivo OnAir® 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.

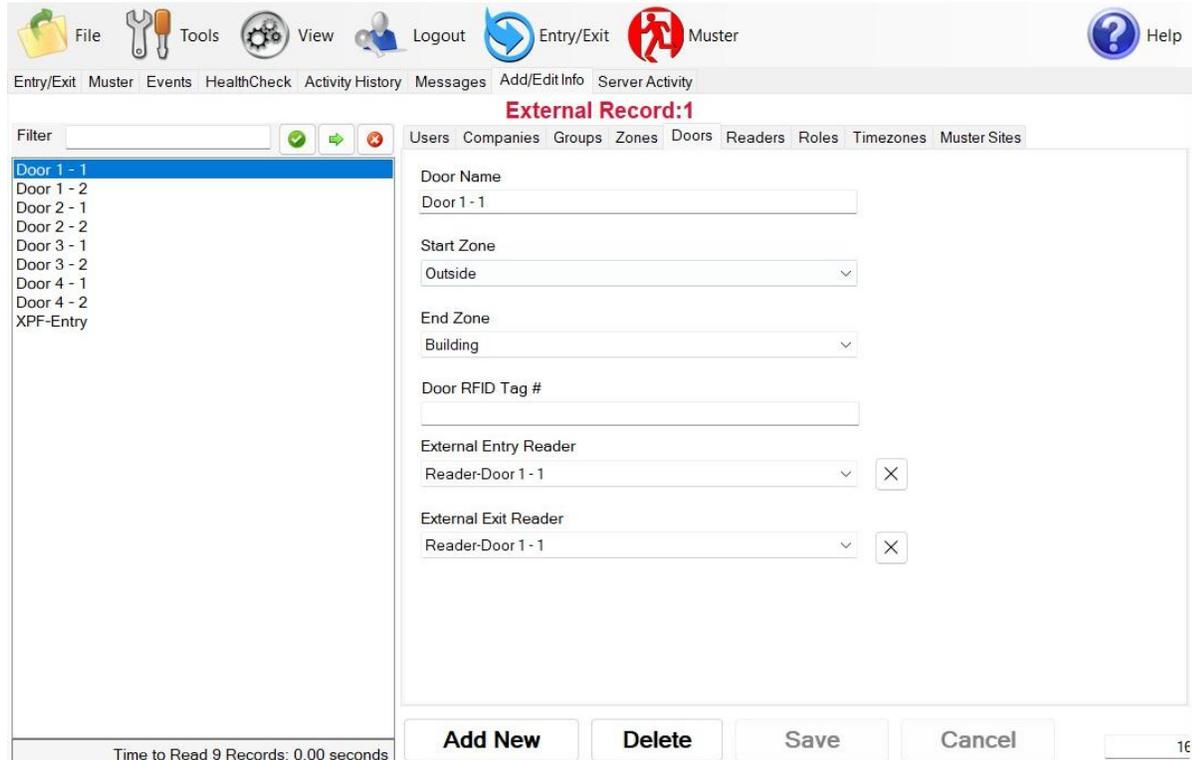
- For entry, permission is based on the user's access to the door's external entry reader.
- For exit, permission is based on the user's access to the door's external exit reader.

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

1. Zones – For each door, set the start zone and end zone in XPressEntry. This will "enter" a user in the specified zone when they enter or exit (or scan at a Brivo OnAir® reader).
2. External Readers – The External Entry Reader is automatically set to the Reader that is created from the door.

The XPressEntry Integration with Brivo OnAir® could use default zones created by XPressEntry or could create more zones manually in XPressEntry, since Brivo OnAir® does not have zones.

A reader is created in XPressEntry with respect to each door pulled from Brivo OnAir® as shown in the below image.



There should be a door in XPressEntry for each physical station that an employee will have a handheld. Select "Outside" for Start Zone and "Building" for End Zone.

Doors will automatically be added for each of the Brivo OnAir® 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.

## Readers

In XPressEntry's Brivo OnAir® 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.

For more information on XPressEntry functionality, please review the XPressEntry Server Documentation.