

XPRESS ENTRY

**XPressEntry / Paxton
Synchronization
Revision 2/22/2022**

For use with the
XPressEntry Mobile Access Control System

By

 **TELAERIS, Inc.**

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Table of Contents

Purpose	3
Paxton SDK	3
Setting Up Paxton for XPressEntry Entry/Exit	3
Setting Up Paxton for Emergency Mustering	4
Enable XPressEntry Synchronization	4
Reader Profile Tab	5
Data Manager	6
Paxton Setup Page	8
Set Zones to Doors	9

Purpose

This document is intended to instruct users on how to synchronize an XPressEntry system with a Paxton NET2 Access Control system. XPressEntry has the capability of providing access control and emergency evacuation management from a handheld device.

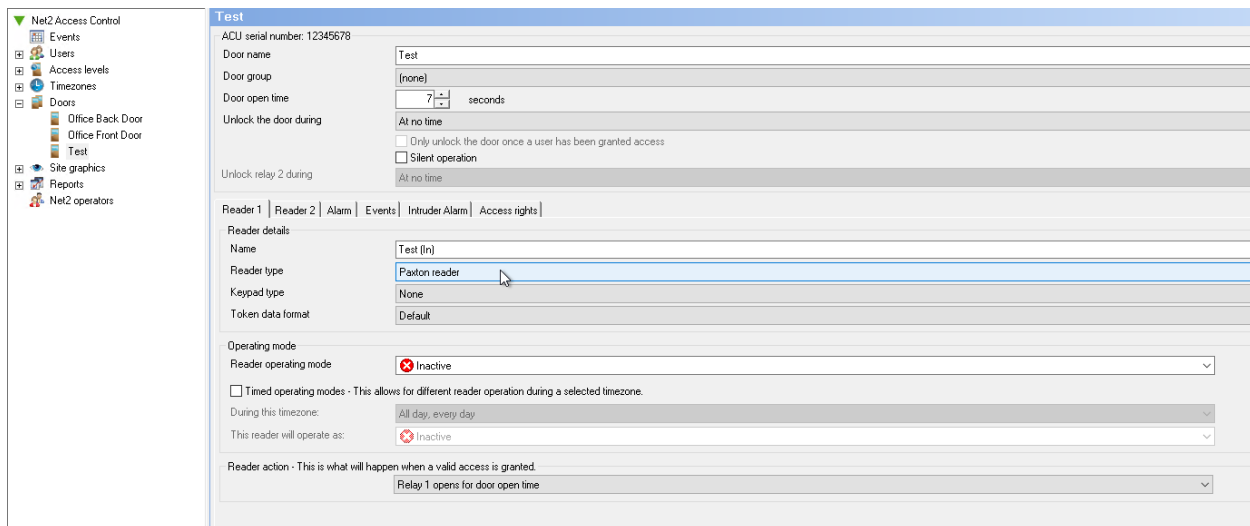
XPressEntry can be installed on the same machine as NET2, or another machine on the same network. If XPressEntry is installed on a remote machine, it should have TCP access to the Paxton NET2 installed machine over port 8025 or the configured port. This document does not provide instructions on the installation of XPressEntry. For XPressEntry setup information, see the document, “XPressEntry Installation and Upgrade” found at <https://telaeris.com/documentation>.

Paxton SDK

It is assumed Paxton Net2 Access Control is installed on a server. Additionally, the Paxton SDK needs to be installed in order for XPressEntry to sync. Please contact your Paxton dealer to receive both the Paxton installation and the Paxton SDK. The Paxton SDK should be installed on the machine that XPressEntry is installed on.

Setting Up Paxton for XPressEntry Entry/Exit

XPressEntry pulls all doors, readers, users, pictures, badges, and access permissions from Net2. In Net2, create a door for each handheld device in XPressEntry. Give each reader an acceptable name to represent the in and out readers on the door. Set the Reader Type to “Paxton Reader”.



The screenshot displays the Net2 Access Control web interface. On the left is a navigation tree with categories like Events, Users, Access levels, Timezones, Doors, Site graphics, Reports, and Net2 operators. The main area is titled 'Test' and shows configuration for a reader with ACU serial number 12345678. The 'Reader details' section includes fields for Name (Test (In)), Reader type (Paxton reader), Keypad type (None), and Token data format (Default). The 'Operating mode' section shows 'Reader operating mode' set to 'Inactive' and 'This reader will operate as' also set to 'Inactive'. The 'Reader action' section shows 'Relay 1 opens for door open time'.

Each handheld can represent a reader that enters a door AND exits a door. A Paxton door can have two readers associated with it. When a handheld scans in Entry Mode, it scans as if it is Reader 1 on the Paxton door it is assigned. When a handheld scans in Exit Mode, it scans as if it

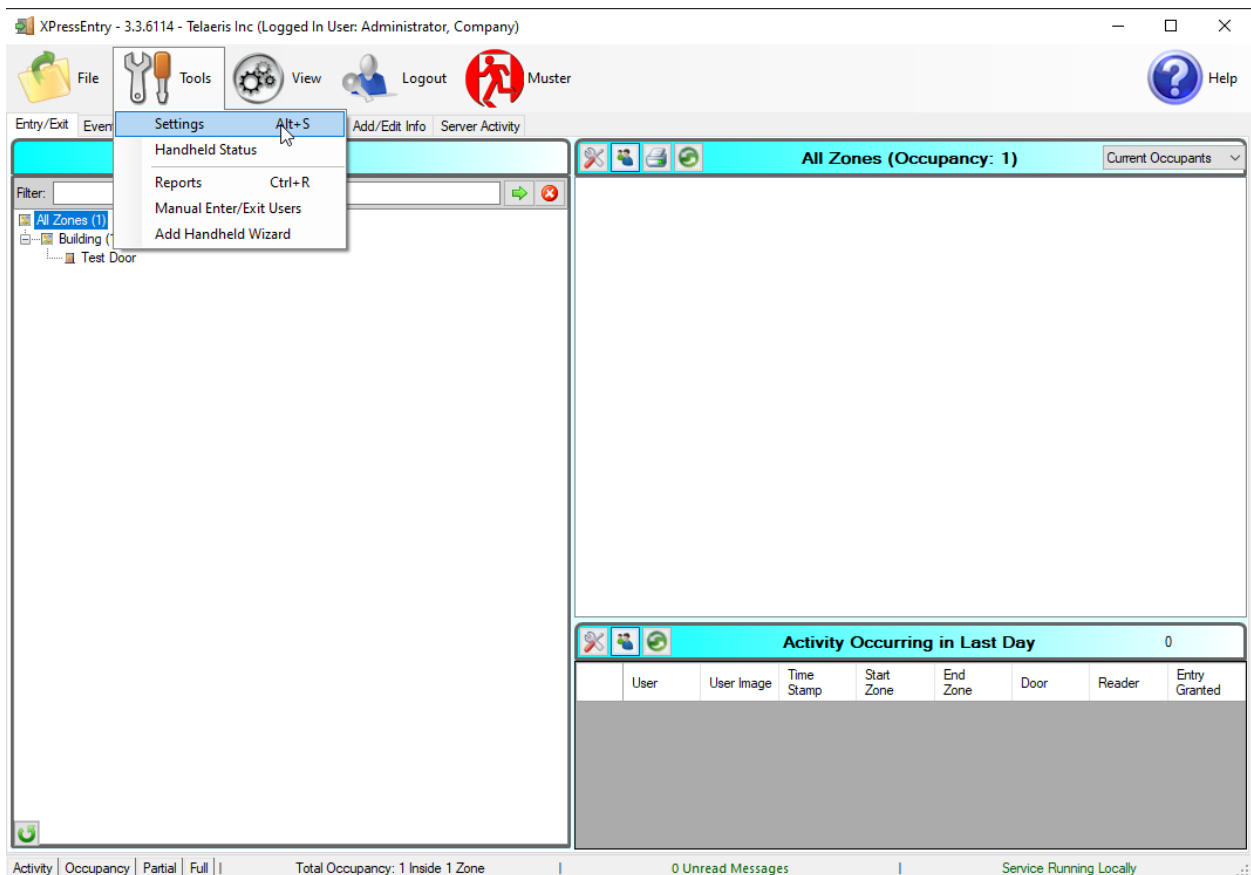
is Reader 2 on the Paxton door it is assigned. Once the doors are created, you can assign access from within the Net2 system as you would for any normal reader.

Setting Up Paxton for Emergency Mustering

XPressEntry does not need additional configuration on the Paxton side for Emergency Mustering. XPressEntry will pull Paxton's existing doors and readers in order to determine occupancy within Paxton.

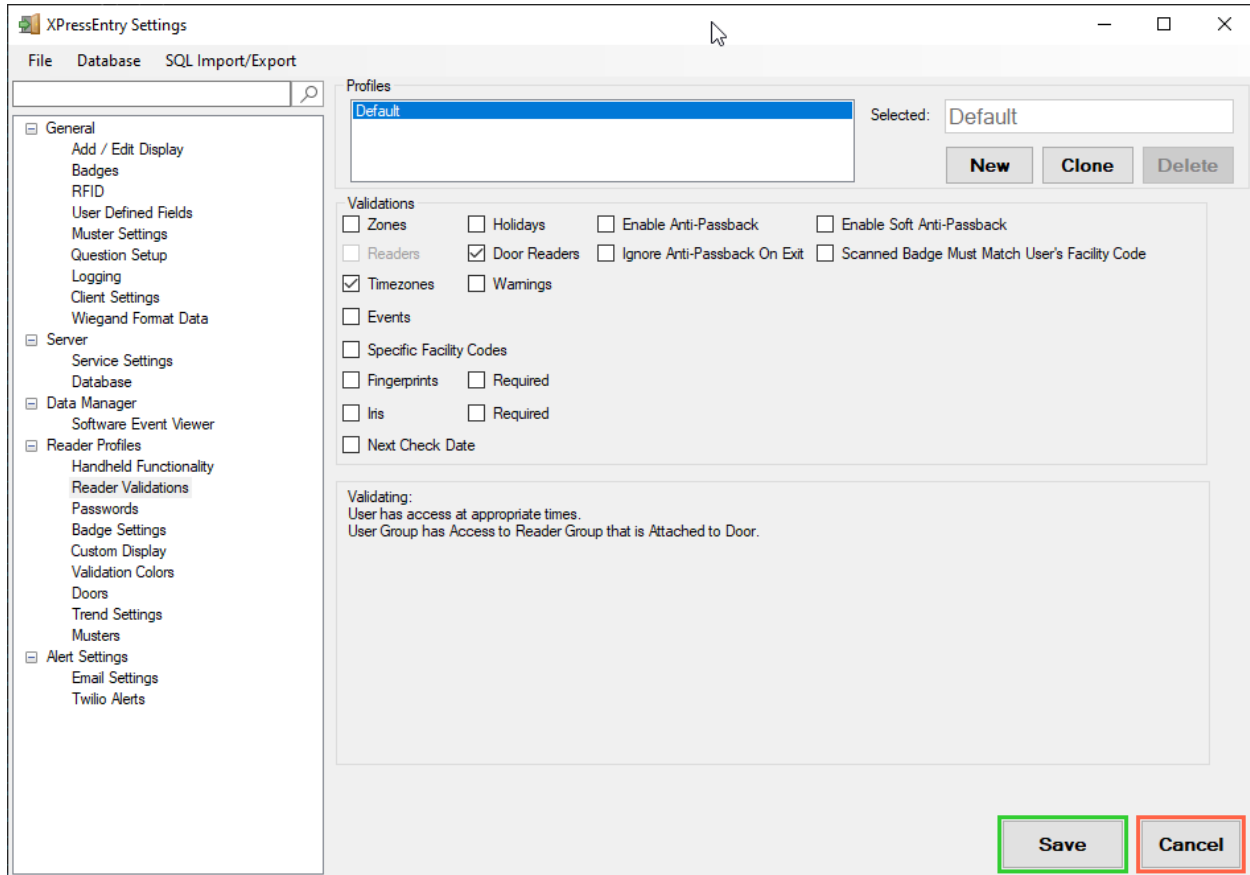
Enable XPressEntry Synchronization

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



Reader Profile Tab

The Reader Profile Tab is where you configure the handhelds.



The only important change to make on this tab is to make sure “Door Readers” and “Timezones” are checked under “Reader Validations”. Select “Save” at the bottom right when finished.

Data Manager

From the Settings, select the Data Manager

The screenshot shows the 'XPressEntry Settings' application window. The 'Data Manager' option is selected in the left-hand navigation pane. The main area is titled 'Sync Timers' and 'Sync Options'. It features a 'Setup Data Manager' button, a 'Disable Concurrent Syncs' checkbox, and a 'Send XPressEntry Activities Now' button. Below these are four rows of settings, each with a text input field, 'Set', and 'Clear' buttons, followed by a 'Sync Now' button:

Sync Type	Frequency Input	Set	Clear	Sync Now Button
Download Activity				Download Activity Now
Occupancy Sync				Occupancy Sync Now
Partial Sync Update				Partial Sync Now
Full Sync Update				Full Sync Now

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 located at the bottom right of the window.

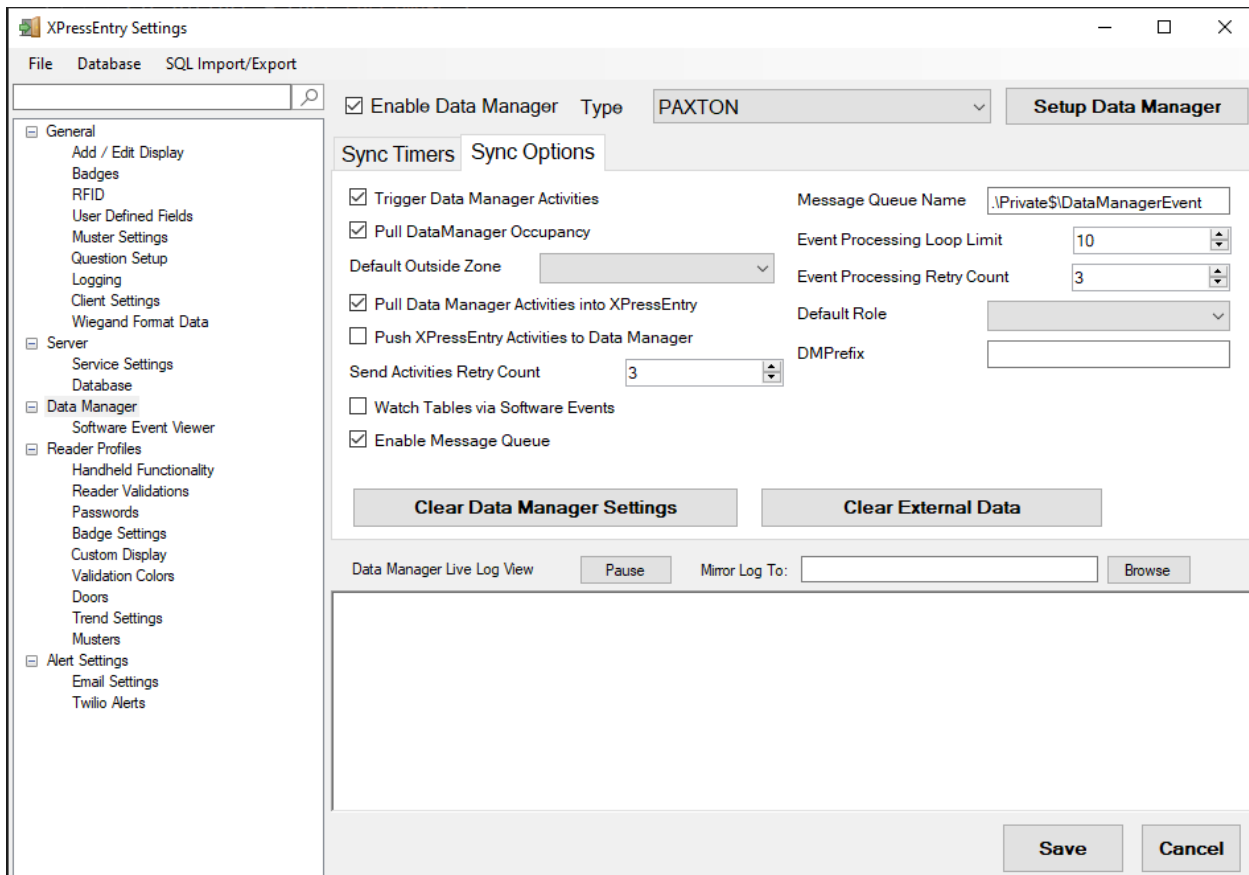
- Type- This is the integration type. Select PAXTON.
- Setup Data Manager- Sends you to the setup form for Paxton's data manager.
- Save and Apply Settings- Saves all settings from the setup form, update frequencies, and activity Synchronization options.
- Update Frequency options- Sets and clears the intervals in which the data manager updates XPressEntry.
- Sync Now functions- Runs an immediate update.
- Send XPressEntry Activities Now- Used to send XPressEntry handheld activities to Paxton.

Set the Update Frequency to as often as you want the system to fully 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 Paxton and update them in XPressEntry. If there is a large number of users in Paxton, this sync option can take some time.

2. Partial Sync Update- This sync will grab records from all tables but will only pull users that have been updated since the last data pull. This is valuable when you do not want to wait for a long sync, but want to add new or updated users into the XPressEntry system.
 - a. Do use this sync to quickly update any table in XPressEntry.
 - b. Do use this sync to quickly pull user changes into XPressEntry from Paxton.
 - c. Do NOT use this sync to delete a user from XPressEntry who was deleted in Paxton.
3. Activity and Occupancy Sync Update-
 - a. XPressEntry can pull Occupancy information from Paxton, based on card scans within the Paxton system. If a user scans into the system, the user can be added to the system occupancy within XPressEntry. If a user scans at an exit reader in Paxton, the user can be removed from the XPressEntry occupancy. This is commonly used for Emergency Evacuation management.
 - b. When pulling Occupancy, XPressEntry moves users to the zones they are entering when they scan at a reader.
 - c. When pulling Activities, XPressEntry moves users to the zones they are entering when they scan at a reader AND XPressEntry keeps a log of the activity in its activity history.

All of these options can be changed at any time. Changing any option will immediately take effect.



1. Trigger Data Manager Activities- Automatically send Entry and Exit scans from handhelds to Paxton. Check this for Entry/Exit
2. Pull Data Manager Occupancy- Enables Occupancy pull. Check this or Activities into Zone for Mustering
3. Pull Data Manager Activities into Zone- Enables Activity Pull. Check this or Data Manager Occupancy for Mustering
4. Watch Tables via Software Events- Check if using Mustering
5. Enable Message Queue- Check if using Mustering

Paxton Setup Page

Select Setup Data Manager from the Data Manager Page.

Paxton Data Setup

Paxton Address: 10.10.9.229

Paxton Port: 8025

User Name: OEM Client

Password: *****

Doors to Monitor

Doors To Monitor: 6740042,12345234 [Reload]

Office Front Door

Test

Office Back Door

Muster Only

Map Zones to Door

Lookup Activities As Query

[Connect] [Okay] [Cancel]

1. Paxton Address- IP Address or Hostname of Paxton Server
2. Paxton Port- TCPIP port of Paxton SDK
3. User Name- Username of an Admin in Net2
4. Password- Password for above username

5. Doors to Monitor- This is specific to Mustering. These are the doors that XPressEntry will collect scans from to determine occupancy.
6. Muster Only- Check this if only using XPressEntry for Mustering
7. Map Zones to Doors- Automatically creates an entry and exit zone for each door XPressEntry pulls
8. Lookup Activities as Query- Pulls occupancy as database query rather than directly through SDK.

Once these settings are set, run a Full Sync and set the Sync Timers. XPressEntry will begin pulling data from Paxton. Depending on the configuration, XPressEntry will begin pulling occupancy and/or sending activities to Paxton as handhelds scan.

Set Zones to Doors

If Map Zones to Door is NOT set within the Paxton Data setup there is one more step to configuring the Paxton Data. Each Door in XPressEntry that will be used for Entry/Exit or Mustering needs to have a start and end Zone. By default, both of these fields will be blank if the aforementioned setting was not checked.

The screenshot displays the XPressEntry application window. The title bar reads 'XPressEntry - 3.3.6114 - Telaeris Inc (Logged In User: Administrator, Company)'. The menu bar includes 'File', 'Tools', 'View', 'Logout', 'Entry/Exit', and 'Muster'. The sidebar on the left shows a list of doors: 'Office Back Door', 'Office Front Door', 'Test', and 'Test Door'. The main content area is titled 'External Record:1010' and shows the configuration for the 'Office Back Door'. The 'Start Zone' and 'End Zone' dropdown menus are highlighted with a red box. Below these are fields for 'Door RFID Tag #', 'External Entry Reader' (set to 'Office Back Door (In)'), and 'External Exit Reader' (set to 'Office Back Door (Out)'). At the bottom of the form are buttons for 'Add New', 'Delete', 'Save', and 'Cancel'. The status bar at the bottom indicates 'Total Occupancy: 1 Inside 1 Zone' and '0 Unread Messages'.

Set both of these fields on each door a handheld will be assigned to.