

# ***XPRESSENTRY***

**XPressEntry / Kantech**

**EntraPass**

**Revision 1/11/2024**

For use with the  
XPressEntry Mobile Access Control  
System

By



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## Purpose

This document is intended to instruct users on how to synchronize an XPressEntry system with a Kantech **EntraPass** 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 3.5+
  - a. Installed, with network access to Kantech web service.
2. Kantech EntraPass v.7.3-8.6
3. SmartLink SDK software
4. Connected Program license

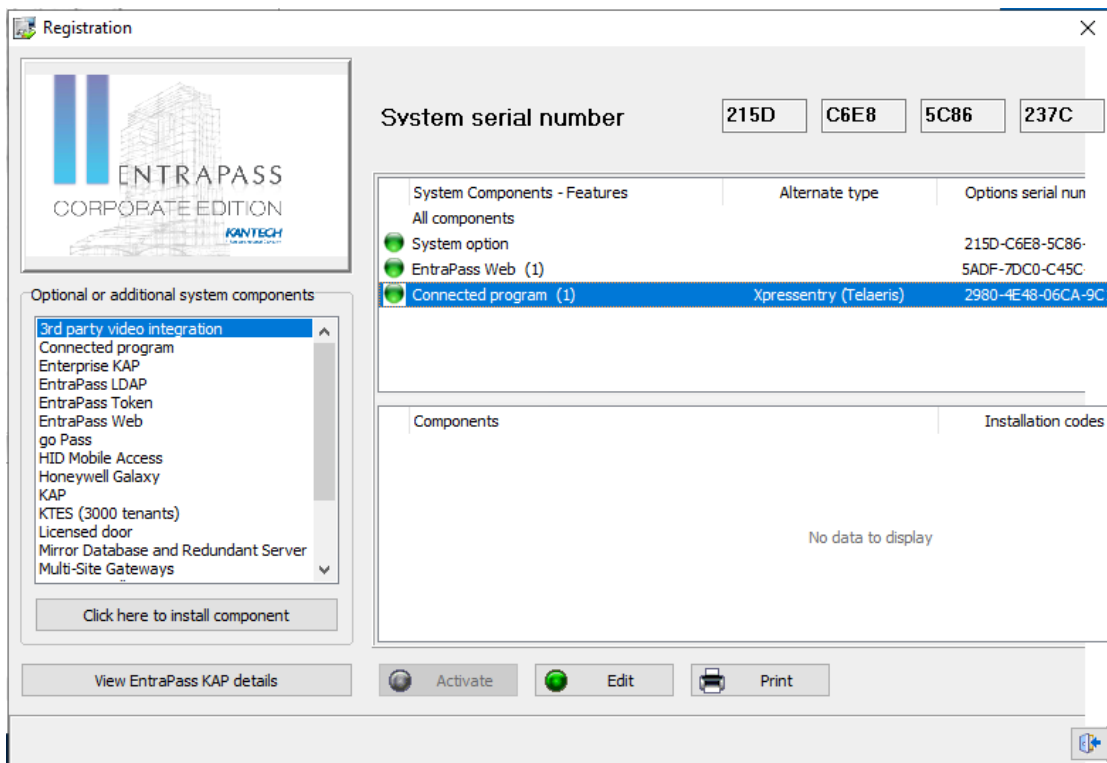
For more information on Kantech service, please contact Kantech Support.

## Setting Up Kantech EntraPass to Synchronize with XPressEntry

It is assumed that a version of EntraPass and XPressEntry are installed on computers or virtual machines that can talk to each other, or the same computer or virtual machine. To install XPressEntry, you should have Administrator privileges on its respective machine. You should additionally be an Administrator or super user in the Kantech EntraPass System.

### Connected Program Licensing

Beginning with version 7.3, EntraPass needs to be licensed by Kantech to sync data from the system. Licensing can be procured through your authorized Kantech reseller.



To apply the **Connected Program** license:

1. Navigate to the **Registration** section of the EntraPass workstation or server app.
2. Select the **Connected Program** option from Optional or additional system components.
3. License the Connected Program by contacting the Tyco Licensing system. Once licensed, Connected Program will appear in the **System Components > Features** section.
4. Initially, **Alternate type** will be empty. Select **Connected Program** from the grid and click **Edit**.
5. Select **XPressEntry**, and then click **OK**.
6. Lastly, close the registration form.

***\*Note:** Restarting EntraPass services is required before XPressEntry will be able to pull data from Kantech.*

## Kantech Operator

Once the Connected Program is registered, the installer will need to create an Operator that XPressEntry will use to log into the integration. The Operator must be defined as administrator.

## Enable XPressEntry Synchronization

XPressEntry uses a module called **Data Manager** to synchronize all data with EntraPass.

From the main page of XPressEntry, go to XPressEntry > Settings (**ALT+S** or **Tools > Settings**).

The screenshot shows the XPressEntry application window. The title bar reads "XPressEntry - 3.5.6413 - Telaeris (Logged In User: Administrator, Company)". The menu bar includes File, Tools, View, Logout, and Muster. The "Tools" menu is open, showing options: Settings (Alt+S), Handheld Status, Reports (Ctrl+R), Manual Enter/Exit Users, and Add Handheld Wizard. The main area displays "All Zones (Occupancy: 7)" with a list of current occupants. Below this is a table titled "Activity Occurring in Last Day" showing a list of user activities.

| User              | User Image | Time Stamp         | Start Zone | End Zone   | Door        | Reader     | Entry Granted  |
|-------------------|------------|--------------------|------------|------------|-------------|------------|----------------|
| Bell, Monica      |            | 07/11 06:25:27 ... | Outside    | Building 1 | Main Gate 1 | Handheld 4 | True           |
| Gale, Sarah       |            | 07/11 06:24:47 ... | Outside    | Building 1 | Main Gate 1 | Handheld 4 | True           |
| Pennington, Ma... |            | 07/11 06:24:03 ... | Outside    | Building 1 | Main Gate 1 | Handheld 4 | ACCESS DENI... |
| Gale, Sarah       |            | 07/11 05:13:51 ... | Outside    | Building 1 | Main Gate 1 | Handheld 4 | True           |

## Data Manager Tab

From the Settings page select the Data Manager Tab.

1. **Type** – This is the integration type. Select **KANTECH > Add > Save**.

2. Go to **Data Manager > KANTECH** in sidebar menu.
3. **Setup Data Manager** – This sends you to the setup form for Kantech's data manager.

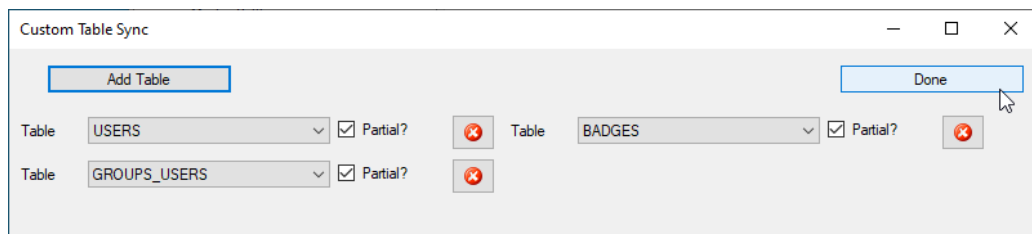
The screenshot shows the 'XPressEntry Settings' window. On the left sidebar, the 'Data Manager' option is highlighted. The main area displays the 'Type' as 'KANTECH'. Below this, the 'Name' is 'KANTECH' and the 'Prefix' is empty. A large text area contains 'KANTECH - Prefix()'. At the bottom right, there are 'Sanity Check Data', 'Save', and 'Cancel' buttons. A red arrow points to the 'Save' button.

## Sync Timers

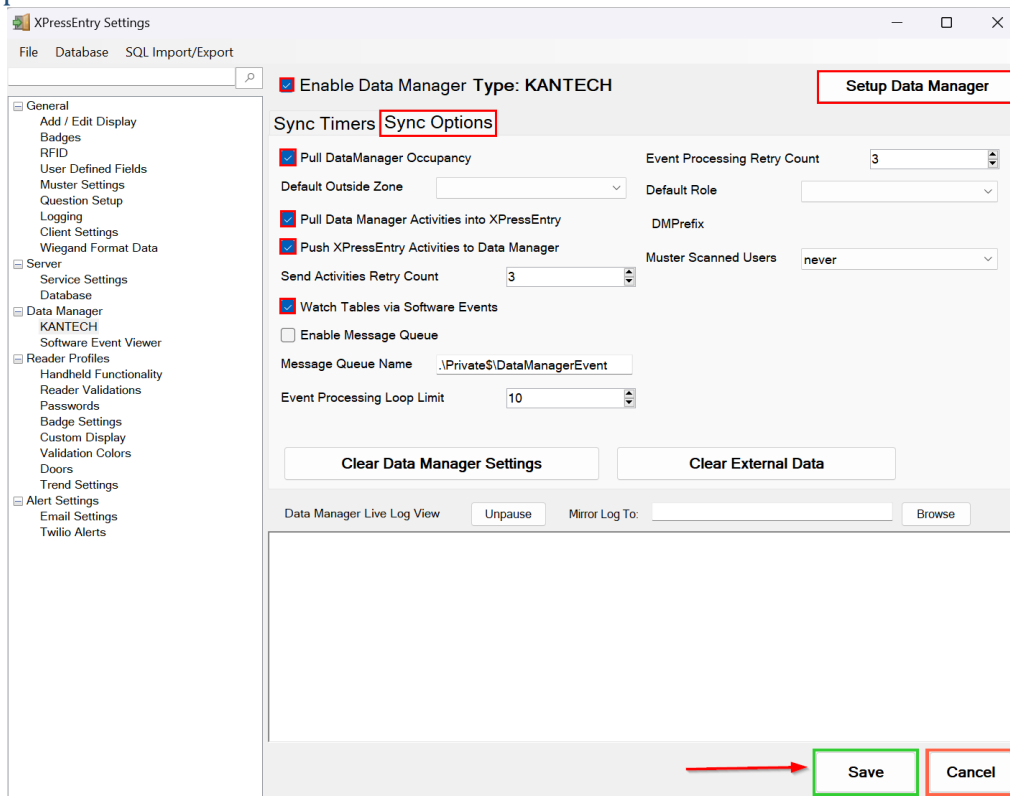
XPressEntry uses Timers to pull Kantech Data into XPressEntry.

The screenshot shows the 'XPressEntry Settings' window with the 'Data Manager' section expanded. The 'KANTECH' option is selected. The 'Sync Timers' section is active, showing 'Sync Options'. The 'Enable Data Manager Type: KANTECH' checkbox is checked. The 'Sync Options' section includes a 'Disable Concurrent Syncs' checkbox (unchecked) and a 'Send XPressEntry Activities Now' button. Below these are five rows of frequency settings: 'Download Activity Frequency', 'Occupancy Sync Frequency', 'Partial Sync Update Frequency', 'Full Sync Update Frequency', and 'Custom Sync Update Frequency'. Each row has 'Set' and 'Clear' buttons. To the right of these are five buttons: 'Download Activity Now', 'Occupancy Sync Now', 'Partial Sync Now', 'Full Sync Now', and 'Custom Sync Now'. At the bottom, there are 'Data Manager Live Log View', 'Pause', 'Mirror Log To', and 'Browse' buttons. A 'Save' button is at the bottom right.

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**.



## 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 Kantech.

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

### Kantech Data Manager Setup Page

**\*Note:** If you have already established a connection with Kantech, make sure **only one login** is going at a time. When you go to the setup form, **disable all syncs** and turn **off** the table watcher. Then press **Save**. Then go into the **Settings** form. This prevents us from opening multiple sessions to Kantech at a time.

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

The screenshot shows the 'Kantech Setup' window with the 'General' tab selected. The 'Database Utilities' section is visible. The 'User' field is set to 'kantech', the 'Password' is masked with dots, and the 'Server' is 'kantech86.ad.telaeris.com:880'. The 'Users Per Cycle' is 1000, 'Badges Per Cycle' is 1000, 'Pictures Per Thread' is 500, 'Report Pictures Per' is 100, and 'Update Pictures Per' is 1000. The 'Event IDs to Process' is 201, and 'Time Between Watcher Check (ms)' is 10000. The 'Connected Program Number' is '8e2866d1-7dfb-46db-8cbe-ff5870faccae'. The 'Log Incoming Event IDs' checkbox is checked, and the 'Users, Badges, and Pictures Only' checkbox is unchecked. The 'Clear' and 'Connect' buttons are visible. A message box says 'Successfully connected to the web client!'. The 'Sites' section shows 'Check All', 'Uncheck All', and '82'. The 'Telaeris Connection' checkbox is checked. The 'Save and Close' button is at the bottom right.

1. **User and Password** – The username and password of the Kantech Operator that was created.



2. **Server** – The location of the Kantech **SmartService** route, including the **port**.
  3. **Use HTTPS** – Select if SmartService uses https.
  4. **Encrypt Login** – Beginning with Version 7.3, the login sent to Kantech **must be encrypted**. Select this setting.
  5. **Connected Program Number** – Provided by Telaeris on all installations to Kantech Systems that are version 7.3 or greater.
  6. **Users per Cycle** – The number of users XPressEntry will query at in a single request.
  7. **Pictures per Thread** – The **number of pictures a single thread** will be responsible for downloading from XPressEntry. This will determine **the number of threads XPressEntry creates** to simultaneously query Kantech's system.
    - a. e.g. With **1000 users** in the database, **100 pictures per thread** will create **10 threads** to asynchronously download pictures. Use this setting to optimize your sync times.
  8. **Report Pictures Per** – Declares how often the software reports the number of pictures downloaded during a sync. **Information logging** must be turned on to view this.
  9. **Update Pictures Per** – How often the system will update pictures pulled from our threads. Use this setting to **optimize sync times**.
  10. **Time Between Watcher Check** (ms) – Not used at this time.
- Once the settings have been correctly set, select **Connect**.

- If the connection is successful, it will respond with, “*Successfully connected to the web client!*”
- If it is not successful, an error message will appear. In the case of an error message, there are a few things that you can check:
  - If the server location is correct
  - If Kantech's web service port matches the port specified in XPressEntry
  - If the firewall on Kantech's machine is turned off for the specified port
  - If all Kantech services are running

Once XPressEntry is successfully connected to Kantech's web service, you must configure which sites XPressEntry will pull data from.

1. Select **Fill Sites List**. The list of sites will populate below.
2. Select the **Site** or **Sites** that you want to pull data from.
3. Select **Connect** again, and then **Save**.

Once completed, close the Kantech Setup form. Select **Save** on the main settings page. You are now ready to sync.

## XPressEntry Data

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

## Users

Here is a sample of a properly synchronized user:

All External Records (From Kantech) 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 Kantech.

The badge number can be seen at the bottom of the screen.

The screenshot shows the 'Users' form in XPressEntry. On the left is a list of users with 'Bell, Monica' selected. The main form displays details for Monica Bell, including her photo, company (Sample Company), role (Entrant), and badge information. The badge table shows two records: one with badge number 457 and another with 759, both activated on 5/27/2020.

| Badge | BDF1 | Activated Date | Expired Date | Invalid | Badge Type |
|-------|------|----------------|--------------|---------|------------|
| 457   |      | 5/27/2020      |              |         |            |
| 759   |      | 5/27/2020      |              |         |            |

## User Permissions

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

The screenshot shows the 'Permissions' form for the selected user, Monica Bell. It allows assigning permissions to various system components. The 'Access Groups' section has 'All Access' selected. The 'Direct Zone Permissions' section has a table for assigning permissions to specific zones. The 'Allowed Times' section has a table for assigning permissions to specific timezones.

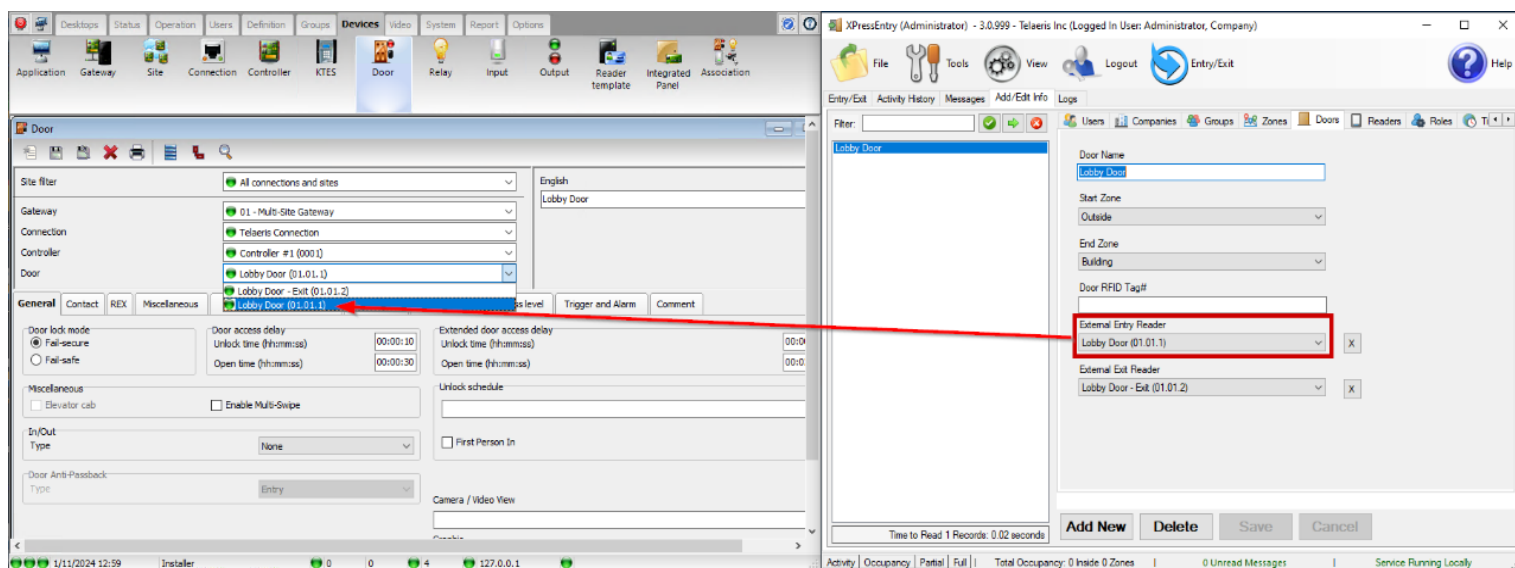
| Zone Name | Start | EndTime | Mon |
|-----------|-------|---------|-----|
|           |       |         |     |

| Timezone Name | Start | EndTime | Mon |
|---------------|-------|---------|-----|
|               |       |         |     |

## 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 **the area you will be exiting to** and the **end zone** to **the area you will be existing from**. 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 exit to.
    - i. **External Exit Reader** will be assigned to the Kantech Reader created for Exit if there is one.
  - b. End zone – The area end user will enter to.
    - i. **External Entry Reader** will be assigned to the Kantech Reader created for Entry.

## Activities

XPressEntry will synchronize activities to Kantech if that option has been set by the Data Manager. Entry/Exit activities will be sent to Kantech and display the results in the Transaction logs.

Activities will display in Kantech with the last associated timestamp on the handheld device. If the handheld device is off and then is turned on and syncs manually, it will display the time of when it was turned on as the sync time.

## Kantech Sync Check

### Kantech – XPressEntry Mapping

| <b>Kantech</b>          | <b>XPressEntry</b>       |
|-------------------------|--------------------------|
| Cardholders             | Users                    |
| Card                    | Badge                    |
| Photo                   | Photo                    |
| Site                    | Company                  |
| Access Level            | Group                    |
| Access Level Door       | Group Reader             |
| Cardholder Access Level | Group User (Permissions) |
| Doors                   | Doors                    |
| Doors                   | Readers                  |

Once the initial sync is completed, check the Add/Edit Info tab on the server to determine if all the Kantech data fields listed above were successfully pulled into XPressEntry.