

XPressEntry

XPressEntry / Siemens SiPass

Revision 12/15/2023

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 Siemens SiPass 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+
2. SiPass version 2.90.03+
3. API Licenses for the following:
 - a. SiPass **HR API**
 - b. SiPass **Management API**
4. SiPass and XPressEntry are **each** installed on computers or virtual machines that can talk to each other or on the same computer or virtual machine.
5. **Ports 30000, 30001** should be open for communication between XPressEntry Server and handhelds on the machine where XPressEntry is to be installed.

Limitations

- There is **no option** in the current integration to **push badge activities** to the SiPass system from XPressEntry.
- Association between **Zones** (APB areas from SiPass) and **Doors** (AccessPoints from SiPass) need to be manually mapped in **XPressEntry**.

Order of Operations

1. Setup SiPass to enable the API. This typically includes creating a User Account or credentials within that system and enabling the API licenses.
2. Setup Siemens SiPass Data and Settings
3. Enable XPressEntry Synchronization
4. Initial Data Synchronization and Set up XPressEntry Data
5. Setup XPressEntry Handheld Readers
6. Scan Data on Reader and Validate Functionality
7. Restart Services in Following Order When Necessary:
 - a. HR API Service
 - b. Management Station API Service
 - c. XPressEntry Service

Setting Up Siemens SiPass to Synchronize with XPressEntry

It is assumed that Siemens SiPass is installed on a server.

1. XPressEntry has been tested on SiPass Version **2.90.03**. For integrations into other versions of SiPass, please contact Telaeris to confirm compatibility.
2. Ensure SiPass HR API and Management API licenses are activated.

Setup Doors and APB Areas

XPressEntry pulls all readers (AccessPoints), users, pictures, badges, and access permissions

from SiPass.

1. Go to **SiPass Integrated Configuration Client > Components**. Create two placeholder Doors as test devices to represent Telaeris Handhelds.
2. From the navigation in **SiPass integrated Operation Client**, select **Anti-Passback Area**, then create new Areas or configure In and Out devices for already existing areas from **Member** tab.
3. Select **Access Level** from the navigation pane in **SiPass Integrated Operation Client**. Add the **doors/devices** intended to be in an Access Level and save. This will be reflected in XPressEntry.
4. Select **Operator** from the **Program** menu. Add a new user with Operator Group as **Administrator**. We will use these credentials to connect to SiPass from XPressEntry.

Figure 1

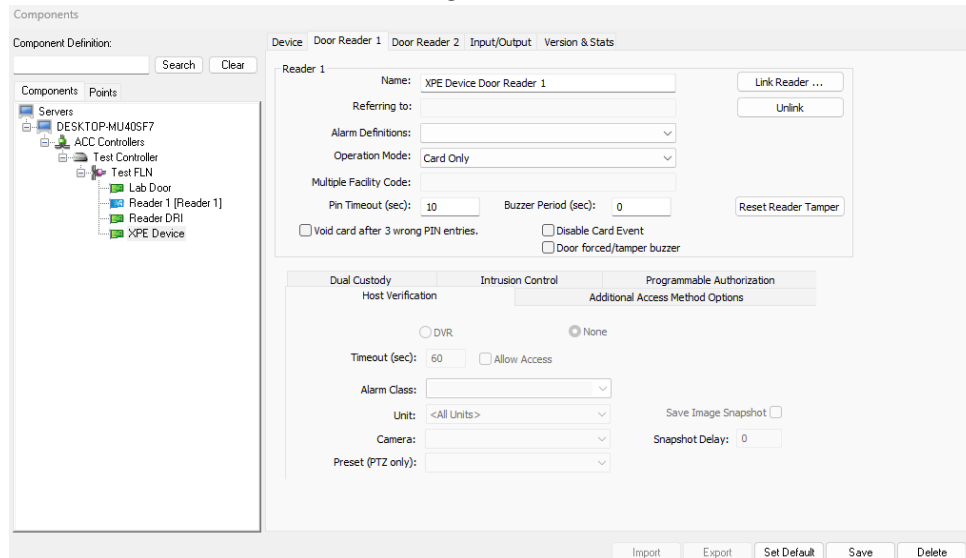


Figure 2

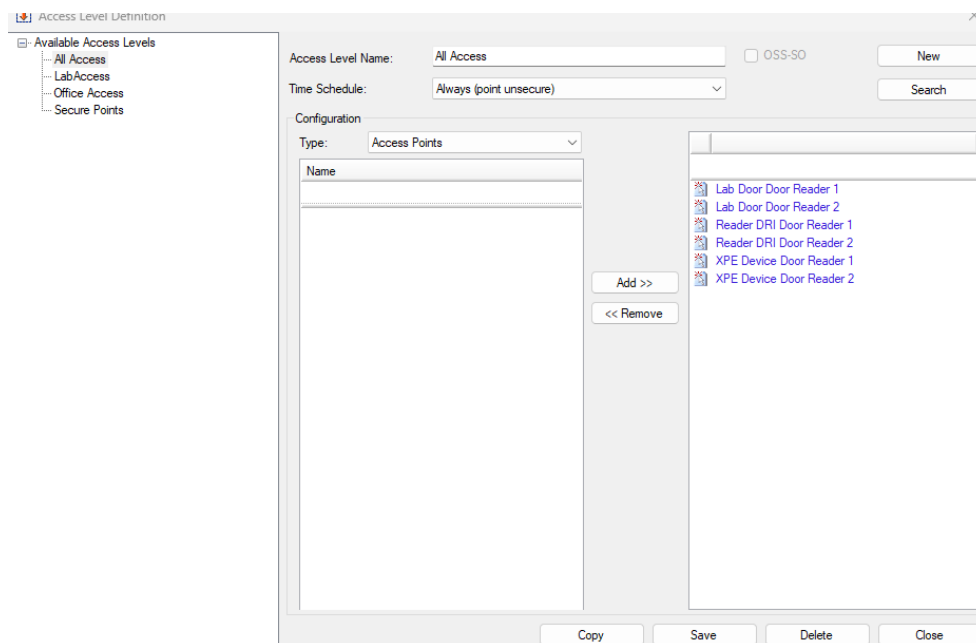


Figure 3

The 'Area - Office' window displays a hierarchical tree on the left with 'Cluster Test' expanded, showing 'Office' and 'Parking'. The main area has tabs for 'Definition', 'Member', 'Workgroup Limits', and 'Area Data'. The 'Definition' tab is active, showing an 'Available List' table and a 'Selected List' table below it. The 'Available List' table has columns 'Point Name' and 'Unit Name'. The 'Selected List' table has columns 'Type', 'Point Name', and 'Unit Name'.

Point Name	Unit Name

Type	Point Name	Unit Name
IN Reader	XPE Device Door Reader 1	Test Controller
OUT Reader	Reader DRI Door Reader 1	Test Controller
Sub Area	Lab	<None>

Buttons at the bottom: New Cluster, New Area, Save, Delete, Close.

Figure 4

The 'Operator' window contains three main sections: 'Operator Identification', 'Automatic Logon', and 'Access'. The 'Operator Identification' section has fields for Last Name, First Name, User Name, Password, and Confirm Password, along with 'New' and 'Reset' buttons. The 'Automatic Logon' section has a checkbox for 'Use the Windows logon to log into the SiPass workstation' and a 'Logon Details...' button. The 'Access' section has dropdowns for 'Operator Group' and 'Time Schedule', a date field for 'Expiry Date', and several checkboxes for permissions.

Operator Identification

Last Name: SIEMENS First Name: SIEMENS [New]

User Name: SIEMENS Password: [] Confirm Password: [] [Reset]

Automatic Logon

☐ Use the Windows logon to log into the SiPass workstation [Logon Details...]

Access

Operator Group: Administrator [v] ☐ External

Time Schedule: Always (point unsecure) [v]

Expiry Date: [04-04-2123] [calendar icon]

☐ Change password next login ☐ Operator Lock Out ☐ Technician

☐ Password Never Expires ☐ Can't Change Password

[Save] [Delete] [Close]

Setup SiPass Data and Settings

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

The screenshot shows the XPressEntry application window. The 'Settings' menu is open, showing options like Handheld Status, Reports, Manual Enter/Exit Users, and Add Handheld Wizard. The main area displays 'All Zones (Occupancy: 7)' with a grid of user photos and details. Below this is a table titled 'Activity Occurring in Last Day' showing entry logs.

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.

The screenshot shows the 'XPressEntry Settings' window. The 'Data Manager' tab is selected in the left sidebar. The main area shows a configuration for 'SIPASS INTEGRATED' with fields for Type, Name, and Prefix. A 'Sanity Check Data' button is at the bottom, and 'Save' and 'Cancel' buttons are at the bottom right.

Type: **SIPASS INTEGRATED** Add Remove

Name: **SIPASS_INTEGRATED** Prefix:

SIPASS_INTEGRATED - Prefix()

Sanity Check Data

Save Cancel

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

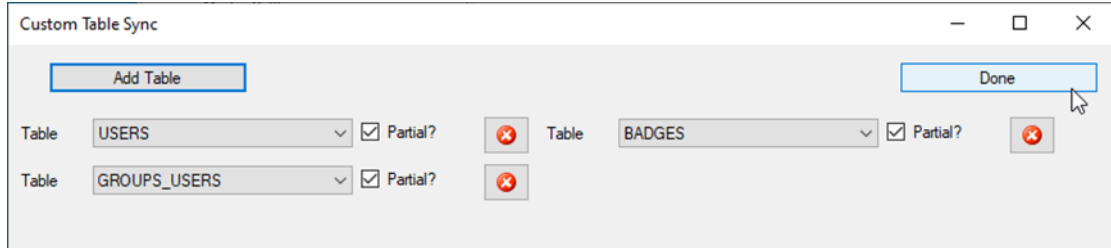
Sync Timers

XPressEntry uses Timers to pull SiPass Data into XPressEntry.

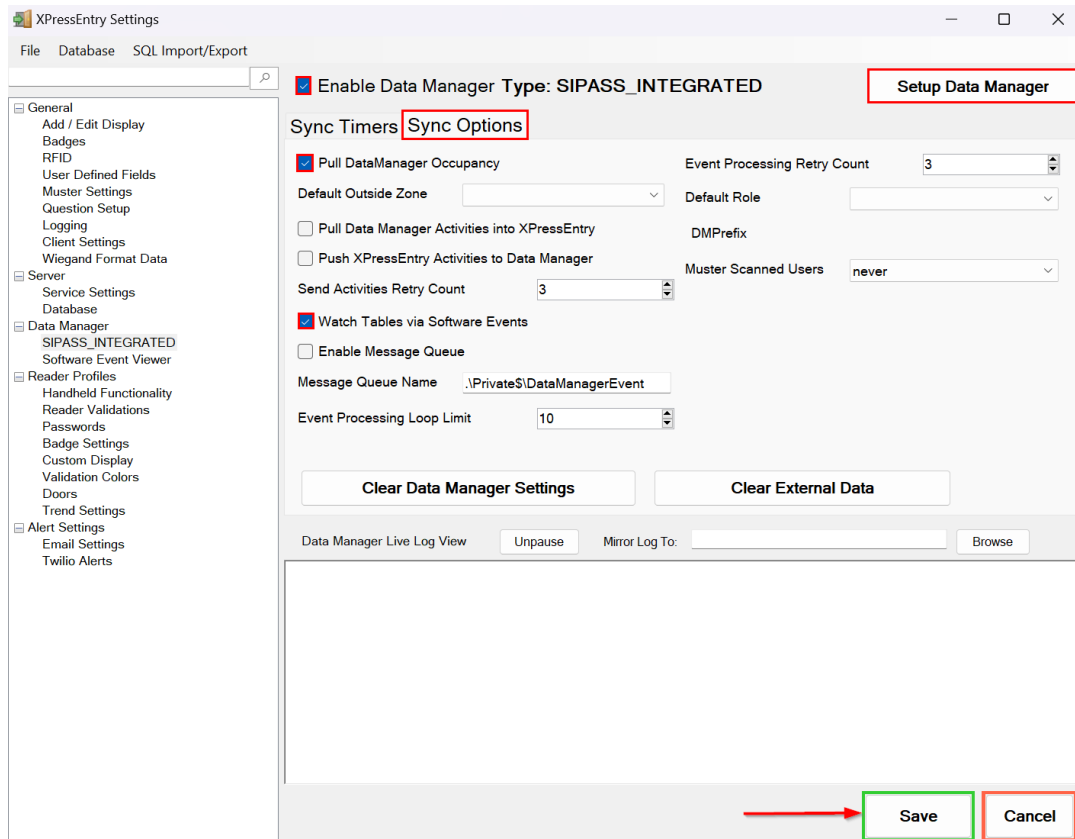
The screenshot shows the 'XPressEntry Settings' window. On the left is a sidebar menu with categories like General, Server, Data Manager, Reader Profiles, and Alert Settings. The 'Data Manager' section is expanded, showing 'SIPASS_INTEGRATED' selected. The main panel has a tab labeled 'Sync Timers'. At the top of this panel, there's a checkbox for 'Enable Data Manager' (checked) and a dropdown for 'Type: SIPASS_INTEGRATED'. A 'Setup Data Manager' button is in the top right. Below this is a 'Sync Options' section with a 'Disable Concurrent Syncs' checkbox. A table lists five sync frequencies: '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, and a 'Sync Now' button (highlighted with a red box). A 'Send XPressEntry Activities Now' button is also present. At the bottom of the main panel, there's a 'Data Manager Live Log View' section with 'Pause' and 'Mirror Log To:' fields. At the very bottom of the window, 'Save' and 'Cancel' buttons are highlighted with red boxes.

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. **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.
3. **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.
4. **Setup DataManager Button** – Opens SiPass Integrated specific settings.
5. **Clear DataManager Settings** – Resets all settings on the two above tabs, as well as the SiPass specific settings.
6. **Clear External Data** – Deletes all data synced from SiPass from the XPressEntry Database.

SiPass Data Manager Setup Page

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

SiPass Data Manager Setup

Host Server IP: localhost

HR API Port: 8745 MS API Port: 8744

Verbose API Data: ☐

Download Pictures: ☒

UserName: siemens

Password: *****

Client Unique ID: *****

Page Size: 100

Test Connect Defaults OK

Status

- a. Host Server IP – IP of the **server** where the **SiPass API service** is running.
 - b. HR API Port – Port # for **SiPassIntegrated HR API service**.
 - c. MSAPI Port – Port # for **SiPassIntegrated Management Station API service**.
 - d. UserName – Username of an **administrator** user in SiPass system.
 - e. Password – Password for the **administrator** user in SiPass system.
 - f. Client Unique ID – A **GUID** to represent **XPressEntry** on connecting to SiPass APIs.
2. Click **Test Connect** after entering all the data correctly. This will connect to the SiPass system using the given user's username and password and the result will display **“Connection Success!”** if connected to SiPass successfully. If there are any errors with the connection it will show in the same result window.
 3. Exit out of this form.
 4. On the Data Manager tab of the Settings form, select **Save**. It is now time to begin syncing data.
 5. Select **Full Sync Now**.

SiPass Sync Check

SiPass – XPressEntry Mapping

The purpose of this section is to help the operator understand exactly what data XPressEntry is pulling from SiPass. For a quick setup, please navigate to the next section, **“Configuring XPressEntry using SiPass Data”**.

SiPass	XPressEntry
APB Area	Zone
Access Points	Reader
Access Points	Door
Cardholders	Users

Cards	Badges
Timezones	Time Zones
Access Groups	Groups
Access Levels	Reader Groups
User Access Groups	User Permissions

All **External Records** (From SiPass) 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.

Zones

All **APB** Areas in SiPass should be available to view in the **Zones** tab under **Add/Edit Info**.

Here is an example of properly synchronized zones:

XPressEntry Zones

SiPass APB Areas

Doors

Doors are automatically created from Access Points.

Here is a sample of a properly synchronized doors:

XPressEntry Doors

The screenshot shows the 'Doors' configuration window in the XPressEntry software. The window has a menu bar at the top with options: File, Tools, View, Logout, Entry/Exit, and Muster. Below the menu bar is a toolbar with icons for Entry/Exit, Muster, Events, Activity History, Messages, Add/Edit Info, and Logs. The main area is divided into a left sidebar and a right main panel. The sidebar contains a list of doors: 'dr_Lab Door Door Reader 1', 'dr_Lab Door Door Reader 2', 'dr_Reader DRI Door Reader 1', 'dr_Reader DRI Door Reader 2', 'dr_XPE Device Door Reader 1', 'dr_XPE Device Door Reader 2', and 'Test Door'. The right panel shows the configuration for 'dr_Lab Door Door Reader 1'. It includes fields for 'Door Name', 'Start Zone', 'End Zone', 'Door RFID Tag#', 'External Entry Reader', and 'External Exit Reader'. The 'External Entry Reader' and 'External Exit Reader' fields are set to 'Lab Door Door Reader 1'. At the bottom of the window, there are buttons for 'Add New', 'Delete', 'Save', and 'Cancel'. The status bar at the very bottom shows '0 Unread Messages' and 'Service Running Locally'.

Readers

All the Access Points from the SiPass system are mapped as Readers in XPressEntry.

XPressEntry Readers

The screenshot shows the 'Readers' configuration window in the XPressEntry software. The window has a menu bar at the top with options: File, Tools, View, Logout, Entry/Exit, and Muster. Below the menu bar is a toolbar with icons for Entry/Exit, Muster, Events, Activity History, Messages, Add/Edit Info, and Logs. The main area is divided into a left sidebar and a right main panel. The sidebar contains a list of readers: 'Handheld 1', 'Server Reader : DESKTOP-MU40SF7', 'Lab Door Door Reader 1', 'Lab Door Door Reader 2', 'Reader DRI Door Reader 1', 'Reader DRI Door Reader 2', 'XPE Device Door Reader 1', and 'XPE Device Door Reader 2'. The right panel shows the configuration for 'Handheld 1'. It includes fields for 'Name', 'Doors', 'Profile', 'GUID', 'External Muster Reader', 'Is External Muster Reader', and 'External Muster Zone'. The 'GUID' field is set to 'ddc7f93cdd90d466'. The 'External Muster Reader' field is set to 'dr_XPE Device Door Reader 1'. The 'Is External Muster Reader' checkbox is checked. The 'External Muster Zone' field is set to 'Default'. At the bottom of the window, there are buttons for 'Add New', 'Delete', 'Save', and 'Cancel'. The status bar at the very bottom shows 'Time to Read 6 Records: 0.02 seconds'.

SiPass Access Points

Components

Component Definition: Search Clear

Components Points

Servers

- DESKTOP-MU40SF7
 - ACC Controllers
 - Test Controller
 - Test FLN
 - Lab Door
 - Reader 1 [Reader 1]
 - Reader CRI
 - XPE Device

Reader 1

Name: XPE Device Door Reader 1 Link Reader ...

Referring to: Unlink

Alarm Definitions:

Operation Mode: Card Only

Multiple Facility Code:

Pin Timeout (sec): 10 Buzzer Period (sec): 0 Reset Reader Tamper

☐ Void card after 3 wrong PIN entries. ☐ Disable Card Event ☐ Door forced/tamper buzzer

Dual Custody Intrusion Control Programmable Authorization

Host Verification

☐ DVR ☒ None

Timeout (sec): 60 ☐ Allow Access

Alarm Class:

Unit: <All Units> Save Image Snapshot ☐

Camera:

Snapshot Delay: 0

Preset (PTZ only):

Import Export Set Default Save Delete Close

Users

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

Here is a sample of a properly synchronized user:

XPressEntry Users

XPressEntry - 3.0.999 - Telaeris Inc (Logged In User: Administrator, Company)

File Tools View Logout Entry/Exit Muster Help

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

External Record:6

Filter:

Users Companies Groups Zones Doors Readers RFID Roles Timezones

User Permissions Contact Info UDFs/Misc

First Name Last Name MI

Milton Emma

Company

Emp ID 147 ☐ Visitor

Zone Parking ☐ Host

Zone Entry: 03-28 11:06:48 AM

Last Reader:

Role

Start Date

End Date

Photo FP

Change Crop Delete

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

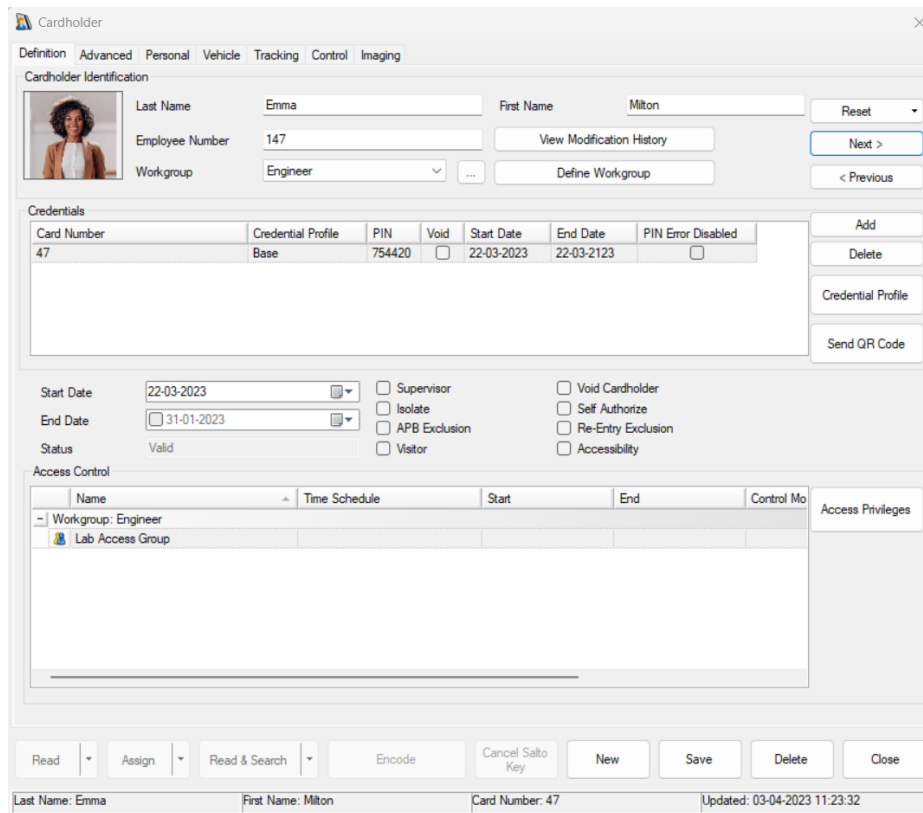
Badge	Activated Date	Expired Date	Invalid	Badge Type
47	22-03-2023	23-03-2123	<input type="checkbox"/>	

Add New Delete Save Cancel

Time to Read 6 Records: 0.25 seconds

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

SiPass Cardholders



The SiPass Cardholder Management Interface is a web-based application for managing cardholders. It features a top navigation bar with tabs: Definition, Advanced, Personal, Vehicle, Tracking, Control, and Imaging. The main section is titled 'Cardholder Identification' and includes a profile picture of a woman, a 'Last Name' field (Emma), a 'First Name' field (Milton), an 'Employee Number' field (147), and a 'Workgroup' dropdown menu (Engineer). There are buttons for 'Reset', 'View Modification History', 'Define Workgroup', 'Next >', and '< Previous'. Below this is a 'Credentials' section with a table of card details:

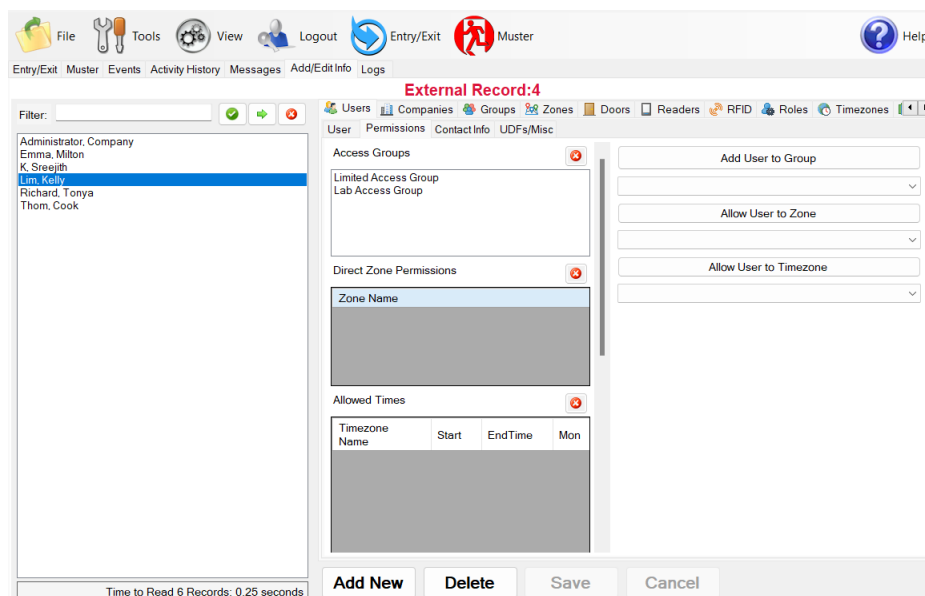
Card Number	Credential Profile	PIN	Void	Start Date	End Date	PIN Error Disabled
47	Base	754420	<input type="checkbox"/>	22-03-2023	22-03-2123	<input type="checkbox"/>

Buttons for 'Add', 'Delete', 'Credential Profile', and 'Send QR Code' are on the right. Below the table are fields for 'Start Date' (22-03-2023) and 'End Date' (31-01-2023), and a 'Status' dropdown (Valid). There are also checkboxes for 'Supervisor', 'Isolate', 'APB Exclusion', 'Visitor', 'Void Cardholder', 'Self Authorize', 'Re-Entry Exclusion', and 'Accessibility'. The 'Access Control' section includes a table with columns: Name, Time Schedule, Start, End, Control Mo, and Access Privileges. The table shows 'Workgroup: Engineer' and 'Lab Access Group'. At the bottom, there are buttons for 'Read', 'Assign', 'Read & Search', 'Encode', 'Cancel Salto Key', 'New', 'Save', 'Delete', and 'Close'. The status bar at the bottom shows 'Last Name: Emma', 'First Name: Milton', 'Card Number: 47', and 'Updated: 03-04-2023 11:23:32'.

User Permissions

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

XPressEntry User Permissions



The XPressEntry User Permissions Interface is a web-based application for managing user permissions. It features a top navigation bar with icons for File, Tools, View, Logout, Entry/Exit, Muster, and Help. The main section is titled 'External Record:4' and includes a 'Filter' field and a list of users: Administrator, Company, Emma, Milton, K. Sreejith, **Emma Milton**, Richard, Tonya, and Thom, Cook. The 'Permissions' tab is selected, showing a table of permissions for the selected user. The table has columns: Access Groups, Direct Zone Permissions, and Allowed Times. The 'Access Groups' section includes a table with columns: Access Groups, Limited Access Group, and Lab Access Group. The 'Direct Zone Permissions' section includes a table with columns: Zone Name, Start, EndTime, and Mon. The 'Allowed Times' section includes a table with columns: Timezone Name, Start, EndTime, and Mon. There are buttons for 'Add User to Group', 'Add New', 'Delete', 'Save', and 'Cancel'.

SiPass Card Access Rights

Cardholder

Definition Advanced Personal Vehicle Tracking Control Imaging

Cardholder Identification

Last Name: Lim First Name: Kelly

Employee Number: 1478

Workgroup: Engineer

Credentials

Card Number	Credential Profile	PIN	Void	Start Date	End Date	PIN Error Disabled
75	Base	185933	<input type="checkbox"/>	22-03-2023	22-03-2123	<input type="checkbox"/>
76	HID26		<input type="checkbox"/>	22-03-2023	22-03-2123	<input type="checkbox"/>

Start Date: 21-03-2023 End Date: 31-01-2023

Status: Valid

Access Control

Read Assign Read & Search Encode Cancel Salto Key New Save Delete Close

Last Name: Lim First Name: Kelly Card Number: 75 Updated: 22-03-2023 12:44:06

Groups

Access Groups are mapped to **Groups**. Readers are included in each group based on the **readers** assigned for each **access level** in SiPass.

XPressEntry Groups

File Tools View Logout Entry/Exit Muster

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

External Record:1

Filter: []

Users Companies Groups Zones Doors Readers RFID Roles Timezones

Name: All Access Group

☐ Is Default Group ☐ Group Allows Reader Login

Readers Zones Holidays

Readers

- Handheld 1
- Lab Door Door Reader 1
- Lab Door Door Reader 2
- Reader DRI Door Reader 1
- Reader DRI Door Reader 2
- Server Reader: DESKTOP-MU40S
- XPE Device Door Reader 1

Timezones

- Always (point unsecure)
- Never (point always secure)
- System Function (non busy intervals)

Selected

- Lab Door Door Reader 1 (Always (point unsecure))
- Lab Door Door Reader 2 (Always (point unsecure))
- Reader DRI Door Reader 1 (Always (point unsecure))
- Reader DRI Door Reader 2 (Always (point unsecure))
- XPE Device Door Reader 1 (Always (point unsecure))
- XPE Device Door Reader 2 (Always (point unsecure))

Add New Delete Save Cancel

Time to Read 6 Records: 0.14 seconds

SiPass Access Groups

Access Group Definition

Access Group Name: OSS-SO

Available Access Levels:

Name
All Access
Lab Access
Office Access
Secure Points

Selected Access Levels:

Name

Search

Access Level Definition

Access Level Name: All Access OSS-SO

Time Schedule: Always (point unsecure)

Configuration

Type: Access Points

Name

Add >> << Remove

Lab Door Door Reader 1
Lab Door Door Reader 2
Reader DRI Door Reader 1
Reader DRI Door Reader 2
XPE Device Door Reader 1
XPE Device Door Reader 2

Configuring XPressEntry using SiPass Data

The editing of any external data is disabled in XPressEntry by default. To enable the settings, go to **XPressEntry Settings > General Tab > Add/Edit Display** then check the option **“Allow Editing of External Data”** in the External Data Section.

XPressEntry Settings

File Database SQL Import/Export

General

Add / Edit Display

Badges

RFID

User Defined Fields

Muster Settings

Question Setup

Logging

Client Settings

Wiegand Format Data

Server

Service Settings

Database

Data Manager

SIPASS_INTEGRATED

Software Event Viewer

Reader Profiles

Handheld Functionality

Reader Validations

Passwords

Badge Settings

Custom Display

Validation Colors

Doors

Trend Settings

Alert Settings

Email Settings

Twilio Alerts

General

☐ Show Badge Types Form ☐ Show Visitor Pre-Registration Form

☐ Show RFID Form ☐ Show Badge Layouts Form

☒ Show Timezones Form ☒ Show Muster Sites Form

☐ Show Holidays Form ☐ Show Deleted Records in Add / Edit List

100 Pagination Size (Zero to Show All)

External Data

☒ Show External Flag in Add / Edit List

☒ Show External ID in Add / Edit List

☒ Allow Editing of External Data

Readers

☐ Allow Reader GUID Switching

☐ Show Reader Merging

☐ Show Reader Timezones

Badges

☐ Show External ID in Badge Grid

☐ Show PIN in Badge Grid

☐ Show Facility Code Column In Badges

☐ Show Badge Defined Field 1 in Add/Edit

☐ Show Badge Defined Field 2 in Add/Edit

☐ Show Badge Defined Field 3 in Add/Edit

Users

☐ Enable User Watch Lists

☒ Enforce Employee Badge # Uniqueness

☒ Enforce Strict Password

GPS

☐ Show GPS Coordinates in Doors

☐ Show GPS Column's in Activity History

Save Cancel

Configuring 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 SiPass could use **AntiPassBack Areas** assigned in **SiPass** as **zones**.

1. For proper **occupancy tracking**, set the start and end zone to zones synched from SiPass in the **Zones** tab.
 - a. Start zone – The area the user will enter from.
 - i. **External Entry Reader** will be assigned to the SiPass Reader created for Entry.
 - b. End zone – The area end user will end up.
 - i. **External Exit Reader** will be assigned to the SiPass Reader created for Exit if there is one.

Configuring Readers

In XPressEntry's SiPass 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.

Configuring Activities

XPressEntry cannot pull or push activities between SiPass Server since the API doesn't support it for now. SiPass API modification is in progress to allow pushing Activities from XPressEntry to SiPass.