

Intergrating Paxton BLU with a fire alarm

This document shows how to integrate a fire alarm relay with the Paxton BLU cloud based access control system. Please note that this is contingent upon approval by the authority having jurisdiction in your area and that alternate means of disconnect may be required.

Paxton BLU can accept an alarm signal from a fire alarm system to automatically open doors during an alarm condition.

The IN-4 input on the Paxton BLU Master Controller is used as the fire alarm trigger. Wire a connection between IN-4 and 0V via the dry (voltage free) alarm contacts on the fire panel.

To be 'fail-safe' the trigger must be a normally closed loop going open when the alarm is activated.

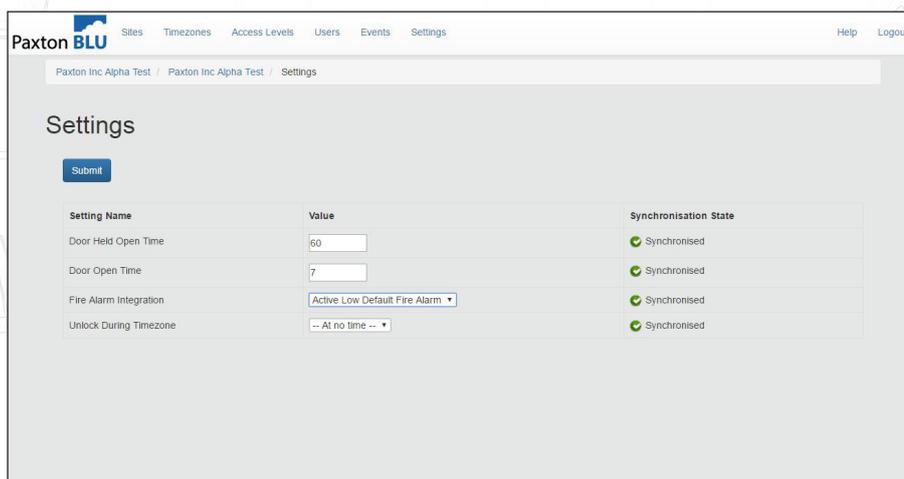


Configuring the Site

You configure the fire alarm by selecting and then submitting either 'Active Low Default Fire Alarm' or 'Active High Default Fire Alarm' in the settings page either for the customer, site or door. If you intend all your sites to operate the same way then set this at the customer level and then ensure that the 'use customer settings' and 'use site settings' box is ticked on the settings page for site and door respectively.

If you chose to unlock some doors and not others you may enable the Fire Alarm Integration on just the controllers with the doors you wish to open, to disable Fire Alarm Integration select the disable option and submit the settings change. Note that both doors on the controller will open under alarm conditions, if enabled correctly, you cannot individually choose to open just one door attached to a controller.

Select 'Active Low Default Alarm' if your alarm panel output is normally closed and goes open under fire alarm condition or 'Active High Default Alarm' if your alarm panel output is normally open and goes closed under alarm conditions.



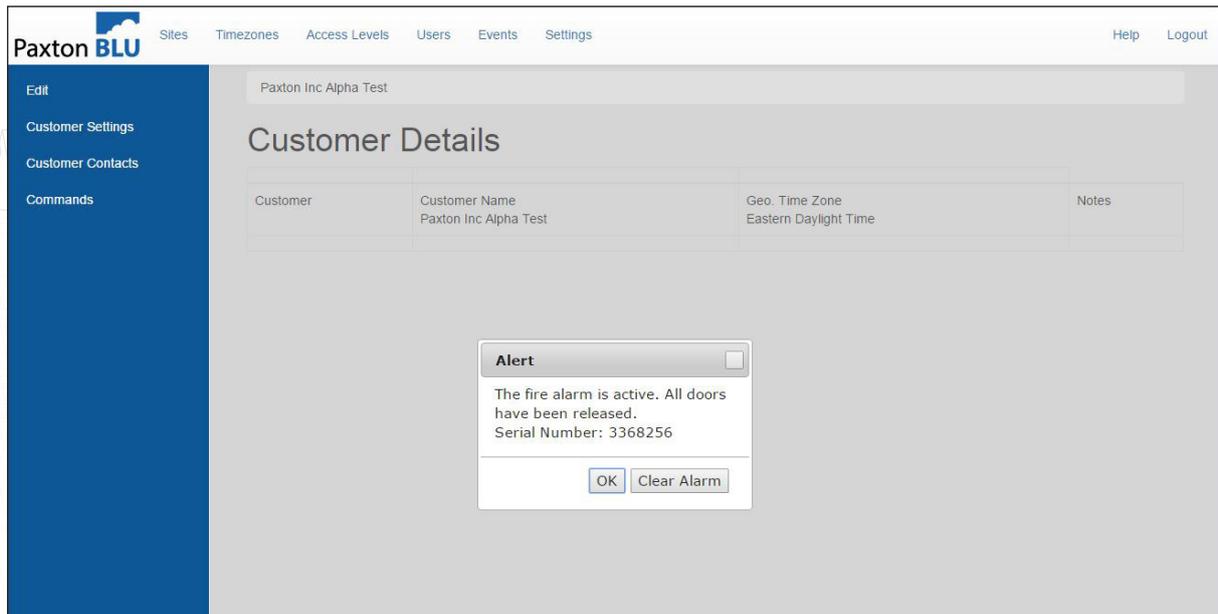
Operation

When the fire alarm trigger occurs the attached doors will open including all doors on connected Paxton BLU Slave controllers where Fire Alarm Integration has been enabled. You will see the following in the events page.

Priority	Event Time	Received Time	User	Source	Description
	Aug 29, 2016 12:03:09 PM	Aug 29, 2016 12:03:12 PM		Chris Wilson Office (1) Alpha Test Unit (3368256) Door 2	Fire Alarm Unlocked
	Aug 29, 2016 12:03:09 PM	Aug 29, 2016 12:03:12 PM		Chris Wilson Office (1) Alpha Test Unit (3368256) Door 1	Fire Alarm Unlocked
	Aug 29, 2016 12:03:09 PM	Aug 29, 2016 12:03:12 PM		Chris Wilson Office (1) Alpha Test Unit (3368256)	Fire Alarm Active
	Aug 26, 2016 14:34:55 PM	Aug 26, 2016 14:34:57 PM		Chris Wilson Office (1) Alpha Test Unit (3368256) Door 1	Door Locked
	Aug 26, 2016 14:34:48 PM	Aug 26, 2016 14:34:50 PM	Chris Wilson (PIN 2580)	Chris Wilson Office (1) Alpha Test Unit (3368256)	Access Granted

All doors on enabled controllers connected to that Master unit, including the Master unit, will now be opened. Note that the opening of fire doors doesn't require a connection to the Paxton BLU cloud, the door release is done locally under hardware control.

The doors can only be returned to their original state by clearing the fire alarm in the web browser, as below. Once you have confirmation that the Fire Alarm panel output has been cleared click on Settings in the top menu bar and click the 'Clear Alarm' button and then click OK twice.



The screenshot shows the Paxton BLU web interface. The top navigation bar includes 'Paxton BLU' logo, 'Sites', 'Timezones', 'Access Levels', 'Users', 'Events', 'Settings', 'Help', and 'Logout'. A left sidebar contains 'Edit', 'Customer Settings', 'Customer Contacts', and 'Commands'. The main content area is titled 'Customer Details' for 'Paxton Inc Alpha Test'. Below the title is a table with columns: Customer, Customer Name (Paxton Inc Alpha Test), Geo. Time Zone (Eastern Daylight Time), and Notes. An 'Alert' dialog box is overlaid on the page, containing the text: 'The fire alarm is active. All doors have been released. Serial Number: 3368256'. The dialog has 'OK' and 'Clear Alarm' buttons.

Provided the alarm panel output has been cleared all doors on the site will return to their earlier status (usually locked).

The opening of fire doors still relies on power to the Master and Expansion control units so an additional method for releasing the doors is required for fire safety compliance. The following section offers advice on using access control with fire doors.