

OpenTech IoE



Configuration Guide

March 2019

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SmartDoor Introduction

SmartDoor is the third integration to date available in the IoE Control Center along with HVAC (Honeywell Round and T5 series thermostats) and Amazon Alexa.

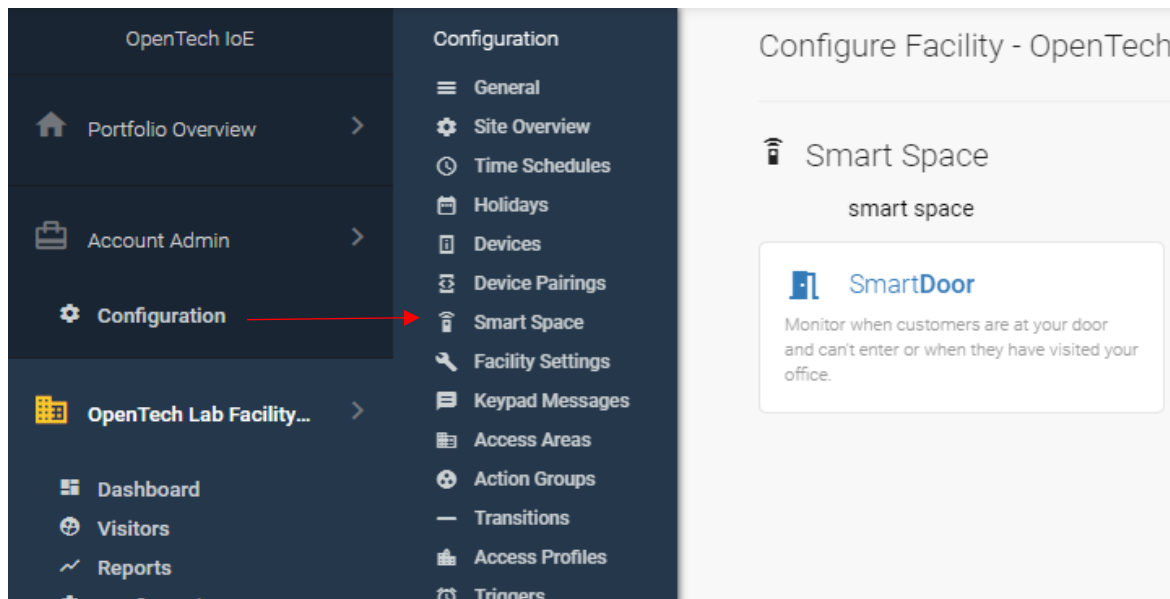
SmartDoor allows a Self-Storage operator to track and report on the following events:

- The date and time that the office door is opened.
- The date and time that a prospective tenant attempts to enter the office door, but does not open the office door because it is locked.

SmartDoor provides greater understanding into hourly traffic patterns at your facility and the opportunity to gain valuable actionable insights that can be used to provide a better customer experience. A locked office door could mean lost business or frustrated customers.

Access SmartDoor Configuration Tab

- SmartDoor is configurable via the IoE Control Center. A new tab is available in the Control Center created in title of 'SmartSpace' (Facilities => Configuration => SmartSpace). The SmartSpace tab is restricted to STC Admin, Account Admin and Regional Manager Roles.



- A new modal was added with title of 'SmartDoor' within the 'SmartSpace' section of the IoE Control Center to allow users to navigate to the SmartDoor List View.
- The List View displays SmartDoor(s) configured at your facility, allows a user to edit or delete a SmartDoor, as well as configure additional SmartDoors.





Configure Facility - OpenTech Lab Facility 111

Smart Space

[smart space](#) > [smartdoor](#)

SmartDoor
Monitor when customers are at your door and can't enter or when they have visited your office.

Filter Add SmartDoor

Description ↑	Edit	Delete
test 0218		
test 0219		

Items per page: 10 1 to 2 of 2 Page 1 of 1

Add SmartDoor

Add SmartDoor

Description *

(required)

Contact Sensor Device *

Contact Sensor Input *

Contact Time (seconds) *
 15

Motion Sensor Device *

Motion Sensor Input *

Motion Time (seconds) *
 15

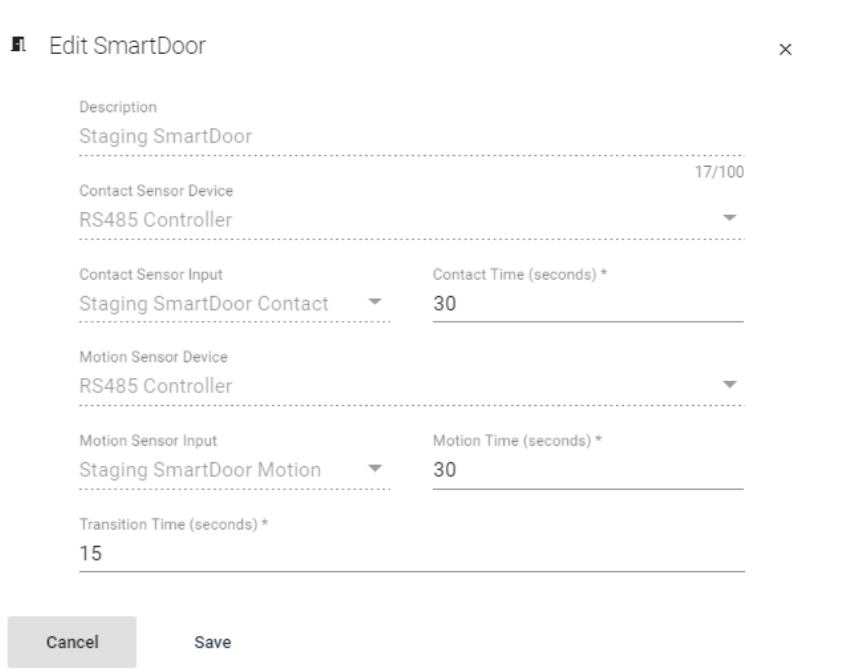
Transition Time (seconds) *
 5

Cancel Save

- Ability to Add (configure) a SmartDoor is restricted to the following roles:
 - STC Admin
 - Account Admin
 - Regional Manager
- Facilities => Configuration => SmartSpace => SmartDoor.
- Clicking on the 'Add SmartDoor' button will open up a new modal from the SmartDoor List View menu.
- The following fields are available for user input in adding a new SmartDoor:
 - Description (i.e., Office Door)
 - Contact Sensor Device
 - Drop down values
 - Keypad Device, Relay Device, Gateway.
 - Select the device that where the Contact Sensor is connected.
 - Contact Sensor Input
 - The Contact Sensor is the magnetic/switch that is installed on the office door.
 - The dropdown list includes available inputs for the Contact Sensor device selected above. If an input is being used for another SmartDoor or Barrier, then it is not available for selection.
 - Inputs that are not viable candidates for selection are grayed out and not available for selection.

- The same input cannot be used for both the Contact Sensor and the Motion Sensor.
- Informational messages are displayed if an input is not available for selection.
- Contact Time (seconds)
 - Free form field for user input; default value is 15 seconds; the time is adjustable up to a maximum of 120 seconds.
 - If the system detects the change in state of the magnet/switch within this time period, then it will be ignored and not be considered as Door Opened.
- Motion Sensor Device
 - Drop down values
 - Keypad Device, Relay Device, Gateway.
 - Select the device where the Motion Detector is connected.
- Motion Sensor Input
 - The Motion Sensor is a Request to Exit (RTE) device that mounted on the outside of the door to detect when people approach the door.
 - The dropdown list includes only available inputs for Motion Sensor device selected above. If an input is being used for another SmartDoor or barrier then it is not available for selection.
 - Inputs not viable candidates for selection are grayed out and not available for selection.
 - The same input cannot be used for both the Contact Sensor and the Motion Sensor.
 - Informational message are displayed if an input is not available for selection.
- Motion Time (seconds)
 - Free form field for user input; default value is 15 seconds; the time is adjustable up to a maximum of 120 seconds.
 - If an input change from the RTE device were detected, within this time period, then it would be ignored for purposes of SmartDoor.
- Transition Time (seconds)
 - Free form field for user input; default value is 5 seconds; the time is adjustable up to 120 seconds.
 - Length of time between Motion Sensor detection and Contact Sensor detection that is identified as an office visit.
 - If the contact sensor detects the office door opening or the motion sensor detects a person approaching the door within this time period, then they would be ignored for purposes of SmartDoor.
- Selecting the Save button will automatically configure the corresponding Action Groups and Triggers.

Edit SmartDoor



Edit SmartDoor ×

Description
Staging SmartDoor
17/100

Contact Sensor Device
RS485 Controller ▼

Contact Sensor Input
Staging SmartDoor Contact ▼

Contact Time (seconds) *
30

Motion Sensor Device
RS485 Controller ▼

Motion Sensor Input
Staging SmartDoor Motion ▼

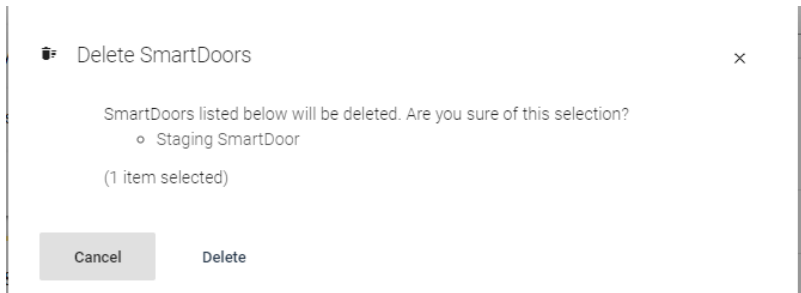
Motion Time (seconds) *
30

Transition Time (seconds) *
15

Cancel Save

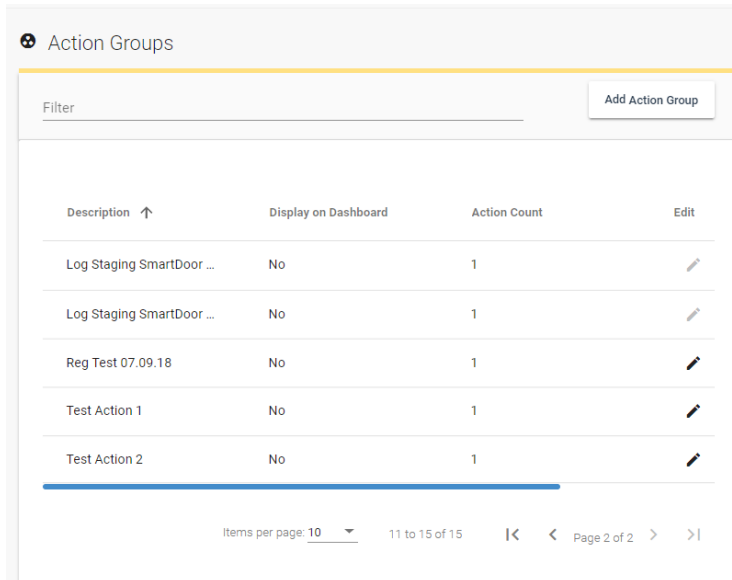
- Ability to Edit a SmartDoor is restricted to the following roles:
 - STC Admin
 - Account Admin
 - Regional Manager
- Once the SmartDoor has been added (configured), the only fields that can be changed are:
 - Contact Time (seconds)
 - Motion Time (seconds)
 - Transition Time (seconds)

Delete SmartDoor








- Ability to Delete a SmartDoor is restricted to the following roles:
 - STC Admin
 - Account Admin
 - Regional Manager
- User is to confirm the request when deleting a SmartDoor.
- The SmartDoor Delete command also removes all components associated with the SmartDoor including Action Groups and Triggers.

SmartDoor Action Groups



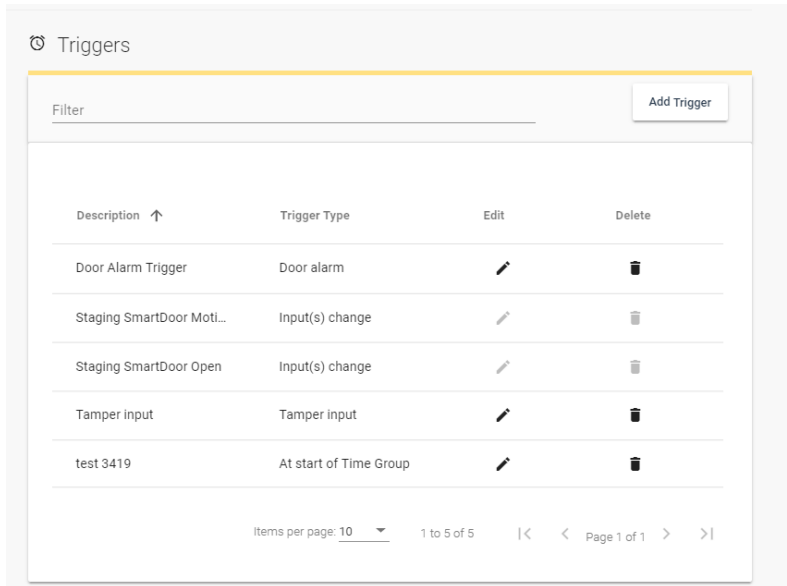
The screenshot shows the 'Action Groups' management interface. At the top, there is a 'Filter' input field and an 'Add Action Group' button. Below this is a table with four columns: 'Description' (with an upward arrow), 'Display on Dashboard', 'Action Count', and 'Edit'. The table contains five rows of data. The first two rows are 'Log Staging SmartDoor ...', the third is 'Reg Test 07.09.18', and the last two are 'Test Action 1' and 'Test Action 2'. All 'Display on Dashboard' values are 'No' and 'Action Count' values are '1'. Each row has an edit icon in the 'Edit' column. At the bottom of the table, there is a pagination bar showing 'Items per page: 10', '11 to 15 of 15', and 'Page 2 of 2'.

Description ↑	Display on Dashboard	Action Count	Edit
Log Staging SmartDoor ...	No	1	
Log Staging SmartDoor ...	No	1	
Reg Test 07.09.18	No	1	
Test Action 1	No	1	
Test Action 2	No	1	











Items per page: 10 11 to 15 of 15 Page 2 of 2

- There are two Action Groups automatically created as part of the initial SmartDoor configuration (Add SmartDoor), these Action Groups cannot be modified or deleted.
- The two Action Groups are Log + “Name of SmartDoor” + Door Motion and Log + “Name of SmartDoor” + Door Open.
- An informational message displays when the user hovers over the Edit or Delete icon (i.e., “The action group is associated with a SmartDoor”).

SmartDoor Triggers



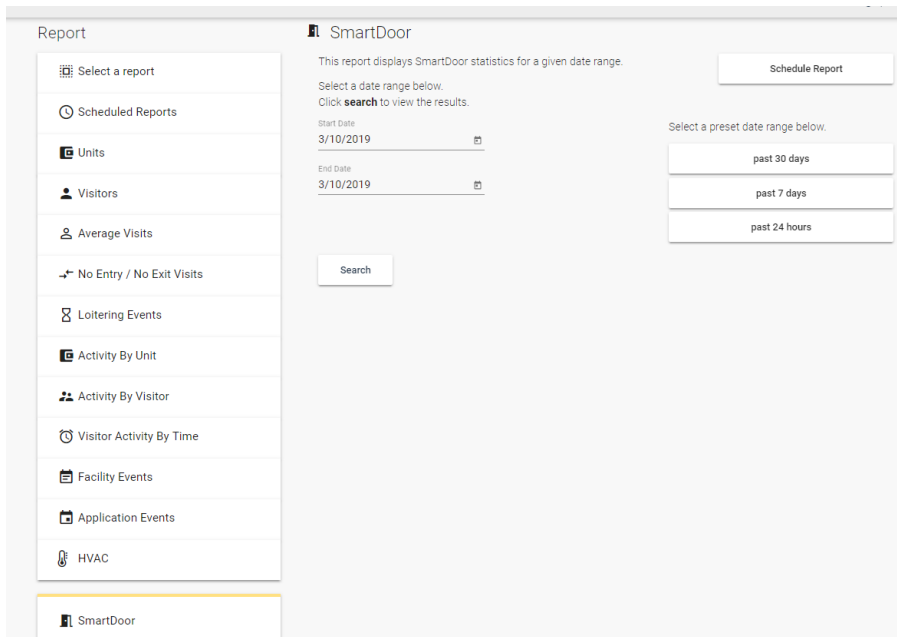
The screenshot shows a web interface titled "Triggers" with a clock icon. It features a filter input field and an "Add Trigger" button. Below is a table with five rows of triggers. The first two triggers, "Door Alarm Trigger" and "Staging SmartDoor Motion", are automatically created and cannot be modified or deleted. The other three triggers, "Staging SmartDoor Open", "Tamper input", and "test 3419", can be edited or deleted. The table has columns for Description, Trigger Type, Edit, and Delete. At the bottom, there is a pagination control showing "Items per page: 10", "1 to 5 of 5", and "Page 1 of 1".

Description ↑	Trigger Type	Edit	Delete
Door Alarm Trigger	Door alarm		
Staging SmartDoor Moti...	Input(s) change		
Staging SmartDoor Open	Input(s) change		
Tamper input	Tamper input		
test 3419	At start of Time Group		

- There are two Triggers automatically created as part of the initial SmartDoor configuration (i.e., Add SmartDoor), these Triggers cannot be modified or deleted.
- The two Triggers are “Name of SmartDoor” + Motion and “Name of SmartDoor” + Open.
- Once the Triggers are created as part of initial SmartDoor configuration (Add SmartDoor), they cannot be modified.
- An informational message displays when the user hovers over the edit pencil icon (i.e., “The trigger is associated with a SmartDoor”).

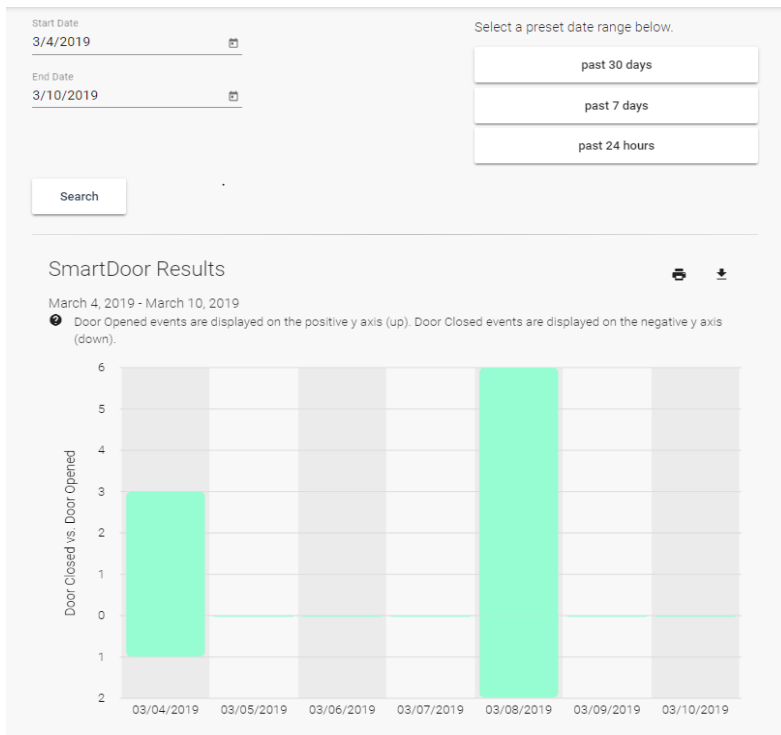
SmartDoor Reporting

- The report displays facility-level SmartDoor statistics for a specific date range and configured SmartDoor(s) for office visits and office closed events: (Facilities => Reports => SmartDoor).
- Select the date range of the report.
- The SmartDoor report can also be scheduled by selecting the Schedule Report button.
- Door open events are displayed on the positive Y axis (1 and above). These events can be interpreted as an office visit.
- Door closed events are displayed on the negative Y Axis (below 1). These events can be interpreted as a visitor could not access the office.
- SmartDoor events are aggregated and processed every five (5) minutes. SmartDoor reports will not contain events that have occurred within the past five minutes.



The screenshot shows the 'Report' section of the SmartDoor interface. On the left is a sidebar with a list of report types: 'Select a report', 'Scheduled Reports', 'Units', 'Visitors', 'Average Visits', 'No Entry / No Exit Visits', 'Loitering Events', 'Activity By Unit', 'Activity By Visitor', 'Visitor Activity By Time', 'Facility Events', 'Application Events', 'HVAC', and 'SmartDoor' (which is highlighted). The main area is titled 'SmartDoor' and contains the following text: 'This report displays SmartDoor statistics for a given date range. Select a date range below. Click **search** to view the results.' Below this, there are input fields for 'Start Date' (3/10/2019) and 'End Date' (3/10/2019), each with a calendar icon. A 'Search' button is located below these fields. To the right, there is a 'Schedule Report' button and a section titled 'Select a preset date range below.' with three buttons: 'past 30 days', 'past 7 days', and 'past 24 hours'.

SmartDoor Report Example



Equipment Required

- SmartDoor requires a Request to Exit (RTE) motion detector mounted on the outside of the door. The RTE motion detector should be mounted above the door facing to the outside of the building to detect people approaching the office door.

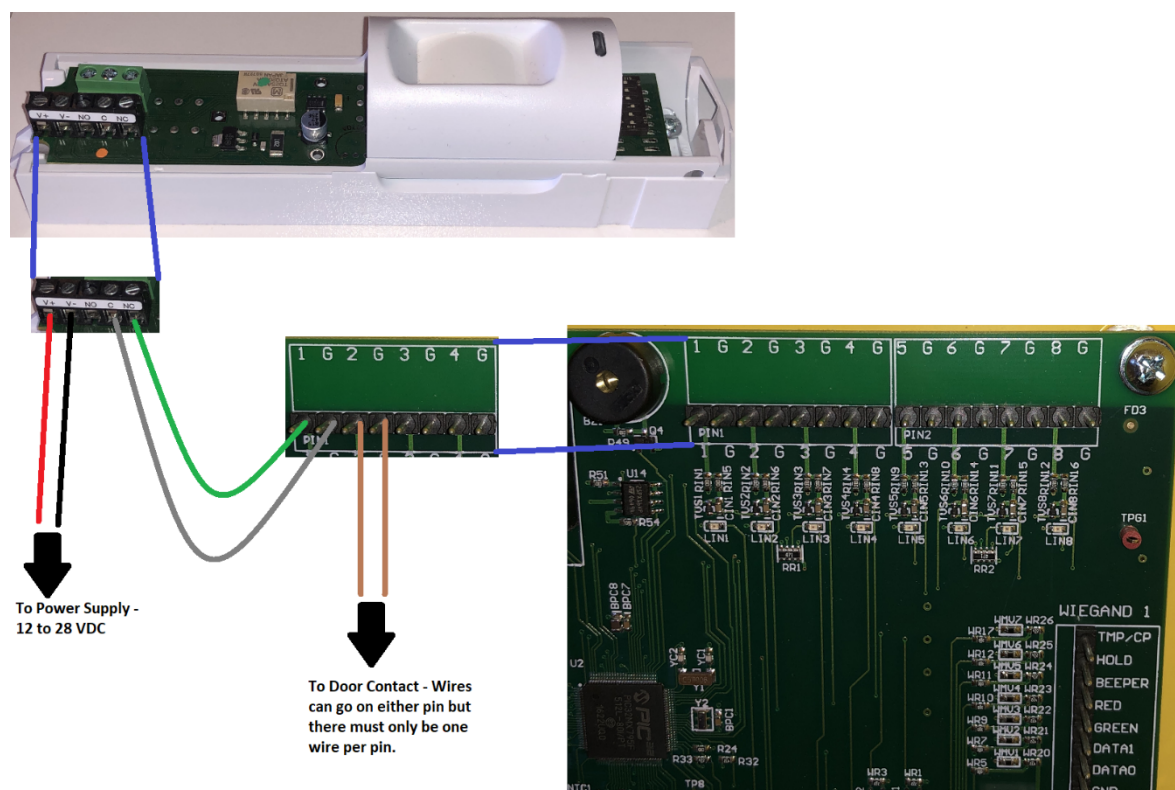
There are multiple RTE motion detectors that are available online. We recommend the Security Door Controls MD-31D (<http://www.sdcsecurity.com/Request-To-Exit-REX-PIR-Sensors.htm>) which is readily available online.

- SmartDoor requires a Magnetic/Switch mounted on the office door (https://www.amazon.com/gp/product/B073SPX1J4/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1). The magnet switch is used to detect when the office door is opened.

SmartDoor Wiring

- Normally closed is how to wire for both motion and contact.
- Type of wire recommended is 18 gauge / 4 conductor.

SmartDoor Wiring Diagram



SmartDoor Support

- The OpenTech IoE / CIA team is available to address any questions you may:
 - (602) 773-1700 (Option 1) **or**
 - via email at ioesupport@opentechalliance.com.