



IoT Bridge

Quick Start-up Guide

VERSION 7.5



IoT Bridge

Quick Start-up Guide | **VERSION 7.5**

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Welcome

Welcome to Spark IoT Bridge.

As your first step, please activate your account, login to IoT Bridge and check that it has your correct contact details. See instructions below for each step. The account type you have been given is one of the following:

Account owner

If you are the first user on your company's IoT Bridge account, you have been given Super Admin rights in IoT Bridge. As a Super Admin you have the full Admin rights to your company's account. Note your Super Admin account is not removable or editable by any other IoT Bridge users from your Company, including Administrators. Once you have logged in and checked your account details, you should set up additional user accounts for your company's IoT Bridge. See instructions below. You can also begin setting up Devices once they have been couriered to you.

Admin

As an admin you have full access to all IoT Bridge features. This is the only role that has access to user management, including assigning user roles and group memberships.

Contributor

As a contributor you have access to device configuration, management of alerts and reports, and management of other user accounts. Please familiarise yourself with IoT Bridge functions. Don't be afraid to experiment and try various functions. Once ready, start adding more users and devices.

Viewer

You can receive reports and alerts, as well as respond to alerts that require action on your behalf. Check the Notification Management section of My Account to see which Alerts you're subscribed to.

Subscriber

You can receive reports and also you can receive and respond to current alerts.

Activate and login into your account

1.

Check your email for an activation link you would've received from admin@iot.spark.co.nz.

Check your Spam/Junk folder if you cannot find it in your Inbox.

2.

Once you click the **activation link**, you will be asked to create a new password.

Lost the activation email? Go to www.iotbridge.nz/app click on "Forgot your password?"

3.

Review and accept the Spark Privacy Policy and click **Next** to complete account activation.



Welcome.

As part of your organisation's adoption of a Spark IoT Monitoring solution, you have been identified as someone who needs user access to IoT Bridge. IoT Bridge is the central dashboard where you can get the timely data you need from the IoT connected devices.

To activate your account please [click here](#) and follow the instructions.

To learn more about Spark IoT Bridge please read the [Quick Start Guide](#), or visit our [Help & Support Centre](#).

If you are unsure that you should be receiving this email, please contact your manager or your organisation's IT team.

Thanks,

The Spark IoT Bridge team.

The image shows a web form titled "Activate your account" with the IoT Bridge Spark logo at the top. It contains input fields for "Email" (with the example "clickyngl@gmail.com") and "Password". The password field is masked with dots. Below the password field, there are four green circular indicators, each followed by a requirement: "be between 8 and 64 characters", "include a lowercase letter", "include an uppercase letter", and "include a number or special symbol". There is also a "Confirm Password" field, also masked with dots. At the bottom, there is a checkbox with a checkmark icon and the text "I agree to [Spark Privacy Policy](#)". A large purple button labeled "Next" is at the very bottom.

Review and update your account details

1.

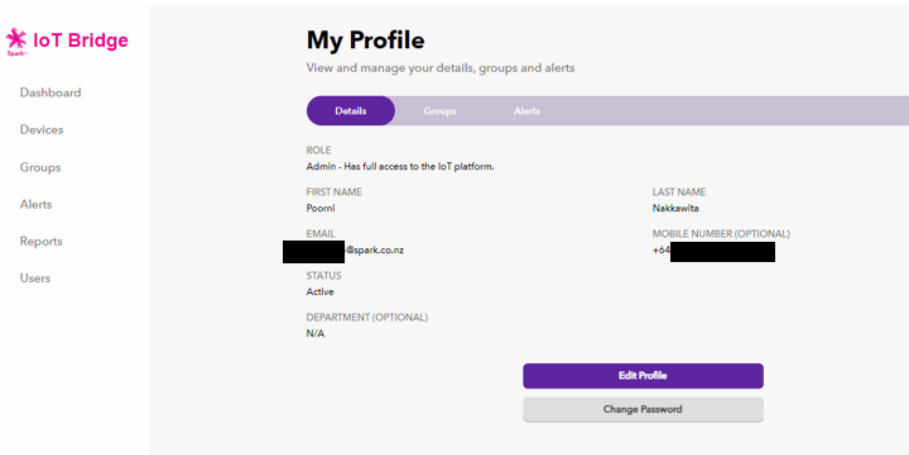
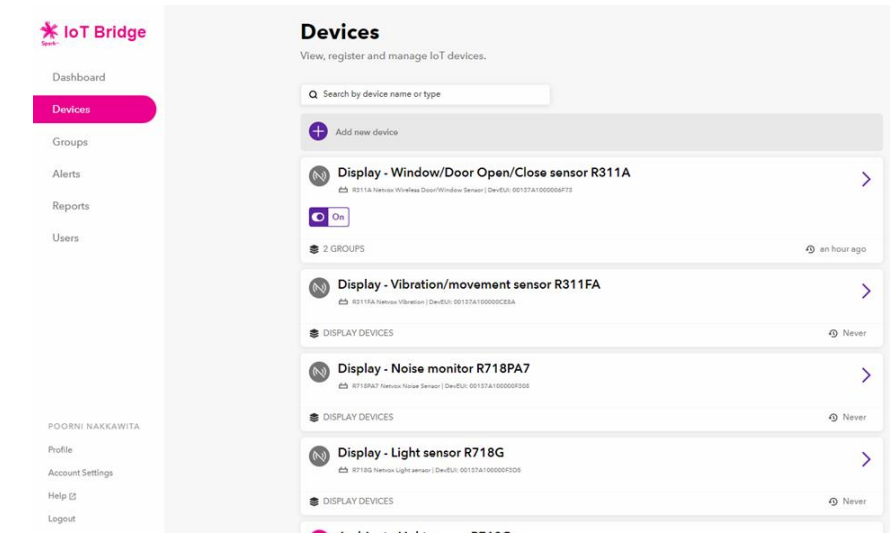
Log in to IoT Bridge and click on **My Profile** on the bottom left.

2.

Click on **Edit Profile**.

3.

Review details. To update click **Save**.



✕

Edit Profile

FIRST NAME

Poorni

LAST NAME

Nakkawita

EMAIL

[redacted]@spark.co.nz

MOBILE NUMBER (OPTIONAL)

+64 [redacted]

DEPARTMENT (OPTIONAL)

CancelSave

Add users

1.

Log in to IoT Bridge and click on **Users** in the menu on the left.

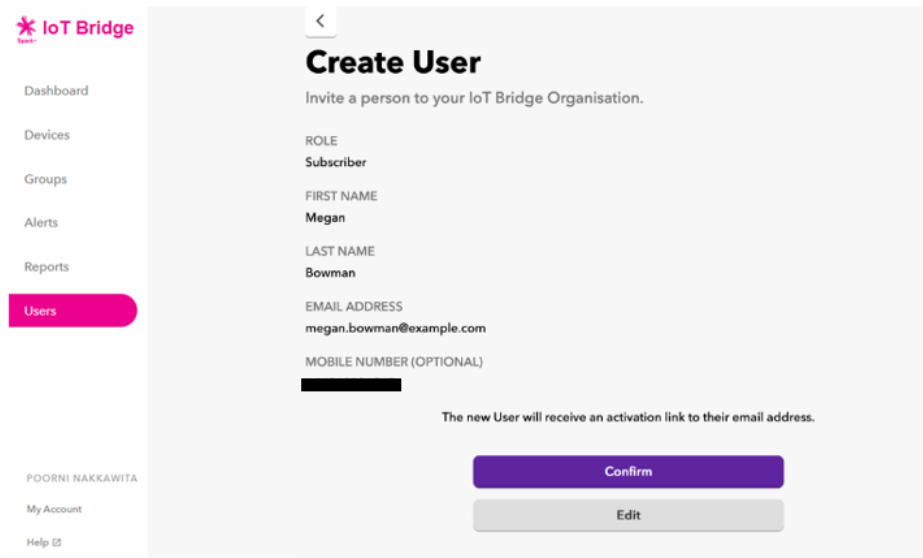
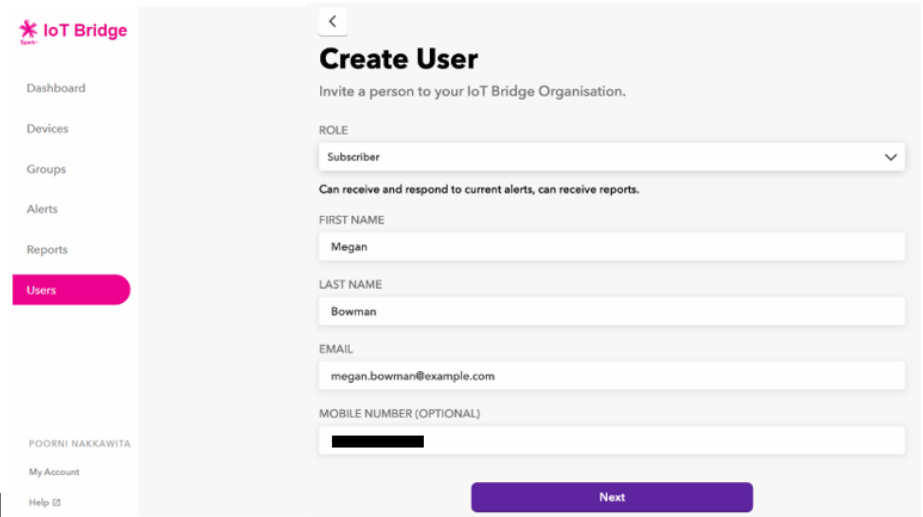
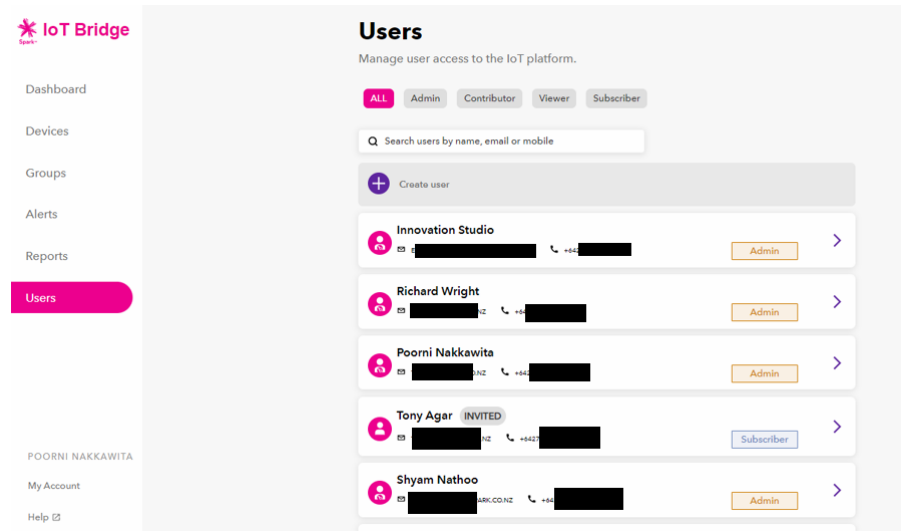
Click **Create User**.

2.

Select the **Role** which is going to be assign to the user (Admin, contributor, viewer or a subscriber) and fill out the new user’s details and click **Next**

3.

Review the details and click **Confirm** (click **Edit** if you need to change the details)



4.

Click **Back to Users**.



Dashboard

Devices

Groups

Alerts

Reports

Users

POORNI NAKKAWITA

My Account

Help



Create User

Invite a person to your IoT Bridge Organisation.



New Subscriber added!

You have successfully added megan.bowman@example.com as a new Subscriber user.
They will receive an email invitation to activate their account.

Add User to Groups

Create another User

Back to Users

Add single device

1.

Log in to IoT Bridge and click **Add Device**.

2.

Copy the device DEVEUI or serial number from either the label on the device or the packaging and click **Validate device**.

3.

Fill out device name, Group (optional), and any **additional information** (optional).

IoT Bridge

Dashboard

Devices

Groups

Alerts

Reports

Users

Devices

View, register and manage IoT devices.

Search by device name or type

+ Add new device

Display - Window/Door Open/Close sensor R311A

R311A Wireless Door/Window Sensor | DevEUI: 00137A100006A773

On

DISPLAY DEVICES

an hour ago

Display - Vibration/movement sensor R311FA

R311FA Wireless Vibration | DevEUI: 00137A100000CE8A

DISPLAY DEVICES

Never

Display - Noise monitor R718PA7

R718PA7 Wireless Noise Sensor | DevEUI: 00F37A100000P308

DISPLAY DEVICES

Never

IoT Bridge

Dashboard

Devices

Groups

Alerts

Reports

Users

Register device

Before a device can communicate with this application you need to register it to your account.

Single device

Bulk device

DEVEUI

The DevEUI will be printed on the label, attached to the underside of your device.

Is a required field

Validate device

IoT Bridge

Dashboard

Devices

Groups

Alerts

Reports

Users

POORNI NAKKAWITA

My Account

Help

Logout

<

Register device

Before a device can communicate with this application you need to register it to your account.

SPECIFY DEVICE FRIENDLY NAME

Specify a device friendly name to easily identify this device within your account.

Test Fridge

SELECT GROUP

Add this device to one of your groups or create a new group. A device can only belong to one group.

Live devices X

Display devices

New Group

New Group 1

test

You can enter additional information for the device.

Enter additional information - Optional

Continue

4.

Review the details and click **Confirm** (click **Back** if you need to change the details)

IoT Bridge

Device Insights

Alerts

Reports

Accounts

My Account

Help

Logout

Register single device

SPECIFY DEVICE FRIENDLY NAME

Specify a device friendly name to easily identify this device within your account.

CDWL Cake Kitchen Icing Fridge

ADDITIONAL INFORMATION - Optional

You can enter additional information for the device.

This fridge is for icing cake and its temperature needs 4 degrees celcius.

Confirm

Back

1.

5.

All done.

IoT Bridge

Dashboard

Devices

Groups

Alerts

Reports

Users

POORNI NAKKAWITA

My Account

Help

Logout

Register device

Before a device can communicate with this application you need to register it to your account.

Success!

The registration of the device has been successful and the device is now active.

Add an alert for this device

Added to group/s

You've created the following group/s: Live devices.

Edit this group

You can also complete this step later and register another device now.

Register another device

Back to devices

Note: Efento devices limit the number of transmissions to optimize the battery lifetime. By default, the devices will log a reading every 5 minutes, and upload all those readings every 3 hours. You can configure the device Edge Rule to trigger **real time alerts** if certain conditions are met.

Add multiple devices

1.

Log in to IoT Bridge portal and select **Bulk Device Registration** under Add device

2.

Select **Browse** and upload the .CSV file including DevEUI details that was sent with your new devices.

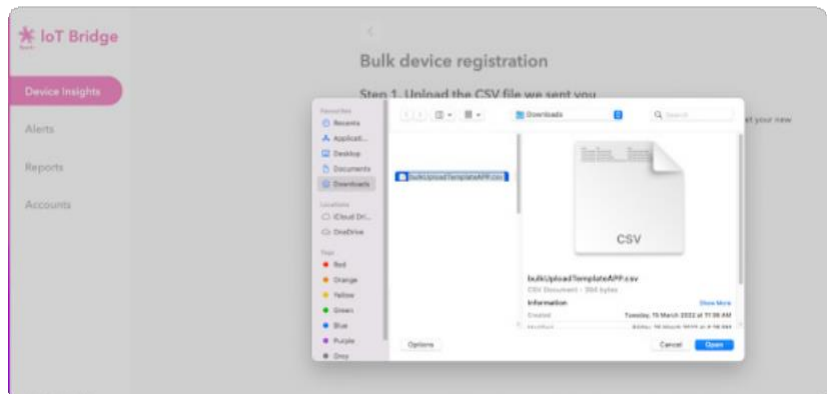
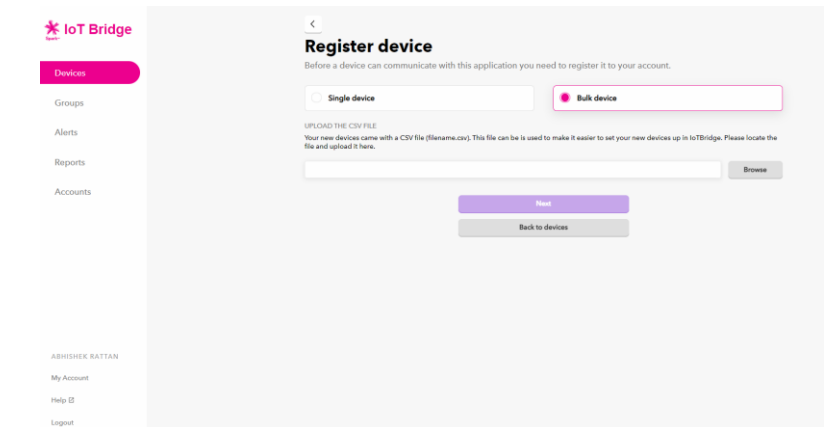
3.

Once the CSV file is uploaded successfully, you'll be provided with an option to edit the device name and to assign the device to a particular group.

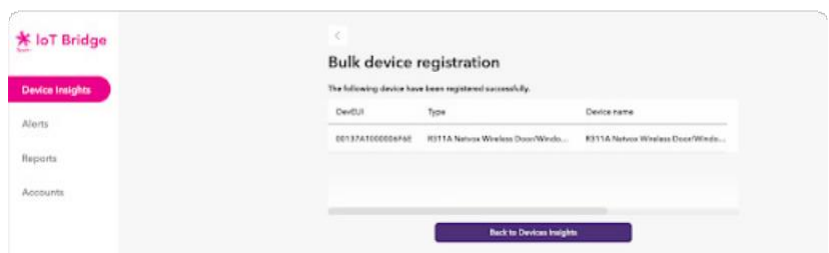
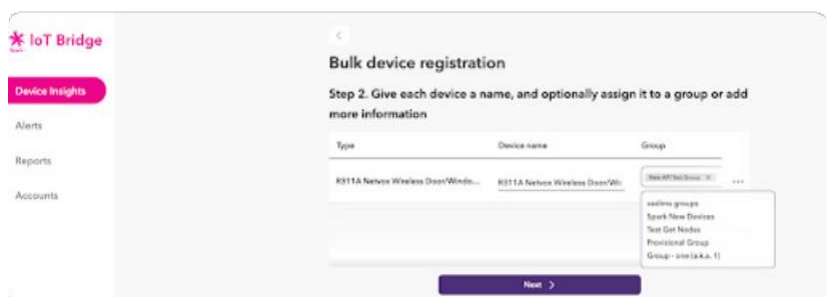
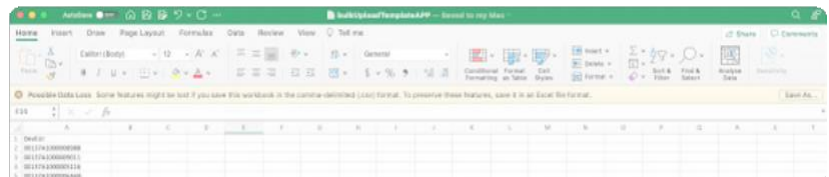
4.

After the device name and group details have been entered, select **Next** to complete the Bulk device Registration.

If the DevEUI is invalid or incorrect, an error will appear on the Bulk device registration screen. Please review and correct as required.

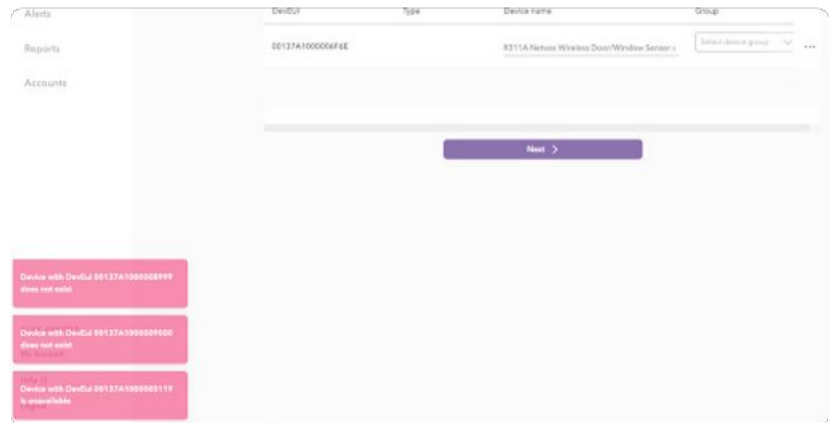


Below is the Screenshot of the CSV File format:



5.

All done.



Note: Efento devices limit the number of transmissions to optimize the battery lifetime. By default, the devices will log a reading every 5 minutes, and upload all those readings every 3 hours. You can configure the device Edge Rule to trigger **real time alerts** if certain conditions are met.

Create a new alert

1.

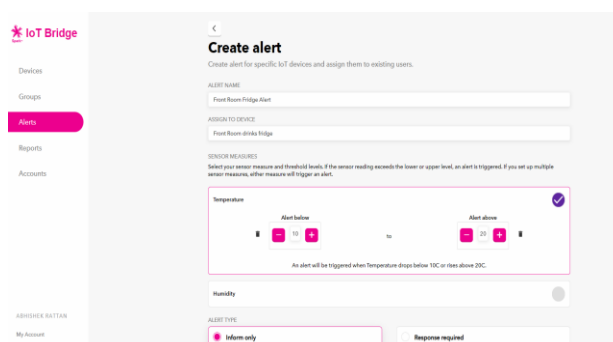
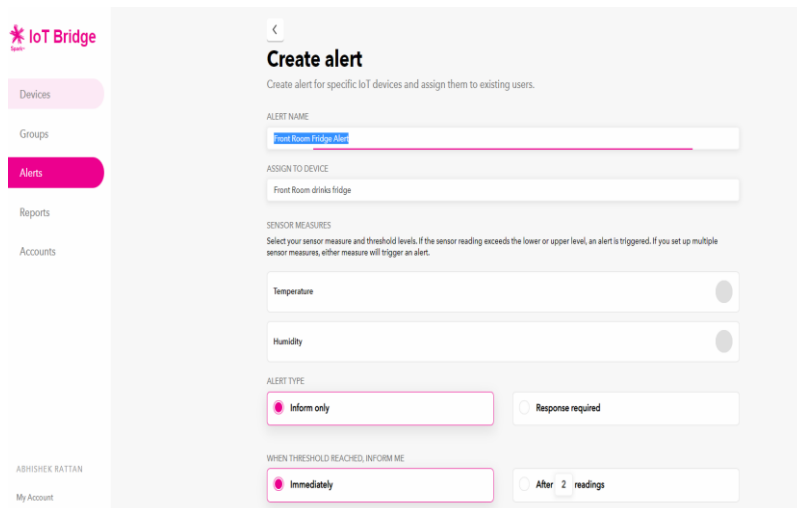
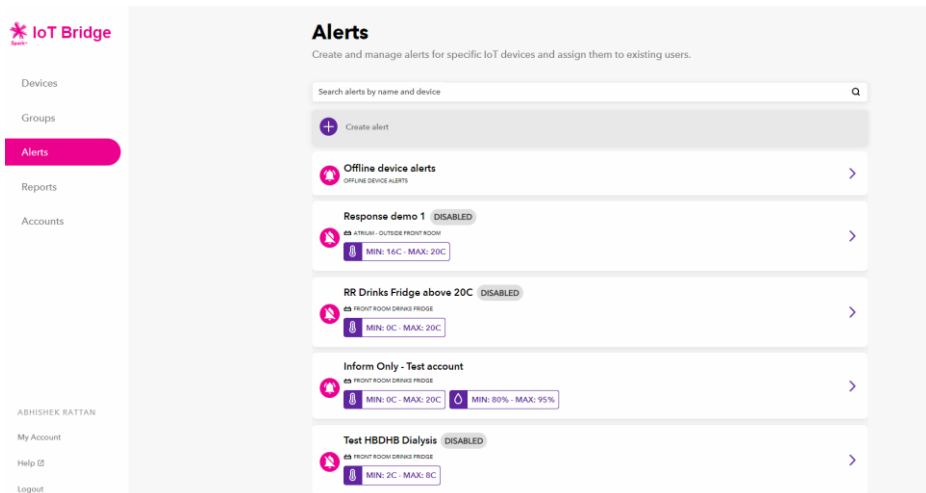
Log in to IoT Bridge and click **Alerts** in the menu on the left

2.

Click **Create alert** and give your alert a name. Assign a device for your alert by typing the device name in the ASSIGN TO DEVICE field. A list of your devices will appear to help you find the right one.

3.

Choose the data type for the alert, and set the thresholds that trigger the alert



4.

Choose if the alert will trigger a required response or is going to be an **inform only**

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

Front Room Fridge Alert

ADD/TO DEVICE

Front Room drive fridge

SENSOR MEASURES

Select your sensor measure and threshold levels. If the sensor reading exceeds the lower or upper level, an alert is triggered. If you set up multiple sensor measures, either measure will trigger an alert.

Temperature

Alert below 10 to Alert above 20

An alert will be triggered when Temperature drops below 10C or rises above 20C.

Humidity

ALERT TYPE

☒ Inform only ☐ Response required

5.

Choose whether the alert will be sent as soon as the threshold is reached, or whether to delay the alert until the threshold is reached for 2 or more consecutive readings. This may be useful where, for example, it is acceptable for the temperature in a fridge to spike temporarily, but not over a longer timeframe.

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

Temperature

Alert below 10 to Alert above 20

An alert will be triggered when Temperature drops below 10C or rises above 20C.

Humidity

ALERT TYPE

☒ Inform only ☐ Response required

WHEN THRESHOLD REACHED, INFORM ME

☐ Immediately ☒ After 2 readings

ALERT STATUS

☒ Enabled ☐ Disabled

6.

Choose whether the alert will be enabled by default, and whether it will be active always or only during specific days and hours

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

ABHISHEK RATTAN

My Account

Help

When threshold reached, inform me

☐ Immediately ☒ After 2 readings

ALERT STATUS

☒ Enabled ☐ Disabled

ALERT SCHEDULE

ALWAYS ACTIVE

Mon Tue Wed Thu Fri Sat Sun

All day

9 am to 5 pm

This alert will trigger from 9am to 5pm on Mo, Tu, We, Th, Fr.

ALERT RECIPIENTS

Next

7.

Select who will be receiving the alert and how (email or txt). Click **Next**.

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

ABHISHEK RATTAN

My Account

Help

When threshold reached, inform me

☐ Immediately ☒ After 2 readings

ALERT STATUS

☒ Enabled ☐ Disabled

ALERT SCHEDULE

ALWAYS ACTIVE

Mon Tue Wed Thu Fri Sat Sun

All day

9 am to 5 pm

This alert will trigger from 9am to 5pm on Mo, Tu, We, Th, Fr.

ALERT RECIPIENTS

Abhishek Rattan

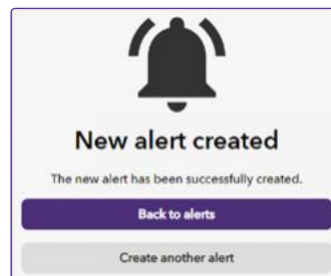
EMAIL SMS

Next

8.

Review the alert settings and click **Confirm**.

The screenshot shows the 'IoT Bridge' interface with a sidebar menu on the left containing 'Devices', 'Groups', 'Alerts' (highlighted in pink), 'Reports', and 'Accounts'. The main content area is titled 'Create alert' and includes the following fields: 'ALERT NAME' (Front Room Fridge Alert), 'ASSIGN TO DEVICE' (Front Room drinks fridge), 'SENSOR MEASURE' (An alert will be triggered when Temperature drops below 10C or rises above 20C), 'WHEN THRESHOLD REACHED, INFORM ME' (After 2 readings), 'ALERT SCHEDULE' (This alert will trigger from 9am to 5pm on Mo, Tu, We, Th, Fr), 'ALERT RECIPIENTS' (Abhishek Rattan), 'ALERT TYPE' (Inform only), and 'ALERT STATUS' (Enabled). At the bottom right, there are 'Confirm' and 'Edit' buttons. The user's name 'ABHISHEK RATTAN' and links for 'My Account' and 'Help US' are visible in the bottom left of the main area.



Create rules & alerts – Efento devices

1.

Log in to IoT Bridge and click **Alerts** in the menu on the left

2.

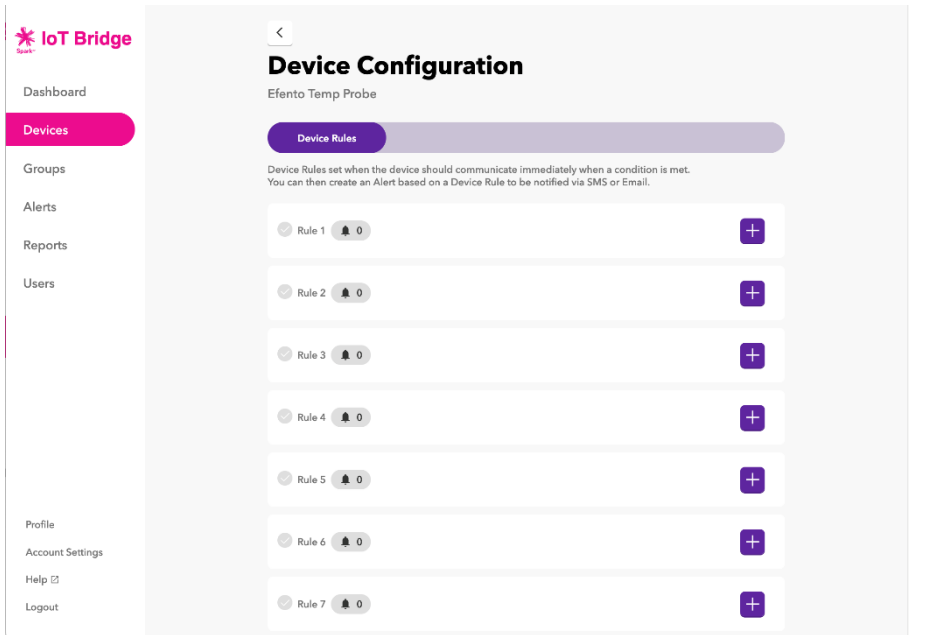
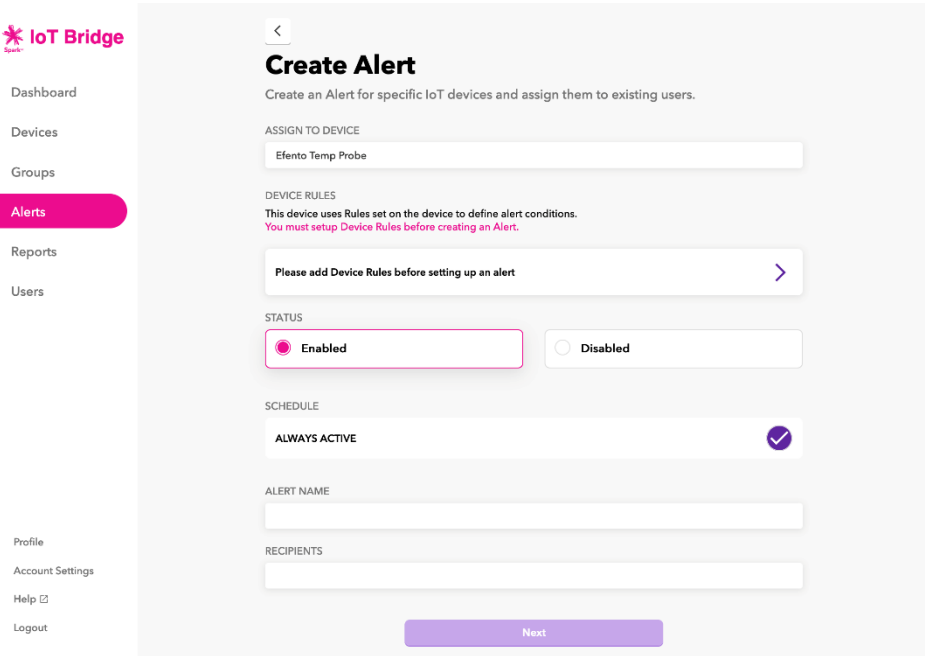
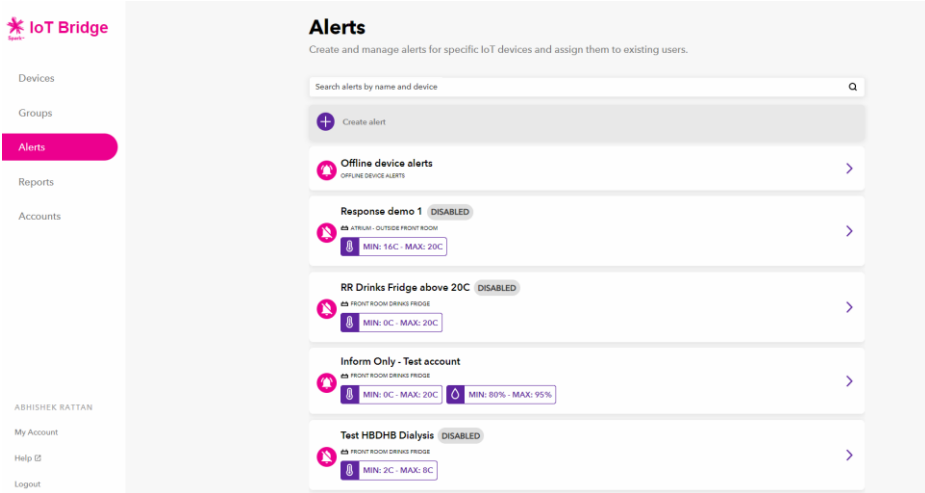
Click **Create alert** and assign the Efento device for your alert by typing the device name in the ASSIGN TO DEVICE field. A list of your devices will appear to help you find the right one.

You have to set up rules first before creating an alert, therefore click **Please add Device Rules before setting up an alert**. Rules can be used for triggering alerts. You can set up to 12 rules

3.

Click + sign on Rule 1

Efento devices limit the number of transmissions to optimize the battery lifetime. By default, the devices will log a reading every 5 minutes, and upload all those readings every 3 hours. You can configure the device Edge Rule to trigger **real time alerts** if certain conditions are met.



4.

Select the measure you want to create the rule from the drop down.

Update Device Rule

MEASURE

Temperature

5.

Select the condition between “Is Above” and “Is Below”

Is Above - if a measurement taken by the device is higher than the threshold value, the device will trigger an immediate transmission.

Is Below - if a measurement taken by the device is lower than the threshold value, the device will trigger an immediate transmission.

Update Device Rule

MEASURE

Temperature

CONDITION

is above

6.

Select the sample type.

For last reading: If the last reading the device takes meets the condition, trigger transmission.

Average for the last 2 reading: If the average reading over 2 readings the device takes meets the condition, trigger transmission.

Average for the last 3 reading: If the average reading over 3 readings the device takes meets the condition, trigger transmission.

Average for the last 5 reading: If the average reading over 5 readings the device takes meets the condition, trigger transmission.

Click **Save Rule**

Update Device Rule

MEASURE

Temperature

CONDITION

is above

THRESHOLD (°C)

-10.5

SAMPLE

for last reading

for last reading
average for last 2 readings
average for last 3 readings
average for last 5 readings

7.

Pop-up will appear asking to either select create new alert or to select configure more rules. If you have completed adding more rules, click **Create new alert**.

8.

You will be taken into the rule creation page.

Select a rule for this alert to be associated with.

Note: You can only select one rule to be associated with an alert

9.

By default, alert status has been selected to be **Always Active**. If you want the alert to be only active during certain date(s) and/or time, de select **Always Active** and select the days and time you want the alert to be active.

10.

Give your alert a name and select who will be receiving the alert and how (email or txt). Click **Next**.

Note: Only "Inform Only" alerts are available for Efento devices at this stage.

Rule Updated

The Device Rule will be sent to the device when it next communicates.

Ensure to create an Alert for the Device Rule you have just created.

[Create new Alert](#)
[Configure more Device Rules](#)

IoT Bridge

[Dashboard](#)
[Devices](#)
[Groups](#)
[Alerts](#)
[Reports](#)
[Users](#)
[Profile](#)
[Account Settings](#)
[Help](#)
[Logout](#)
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Create Alert

Create an Alert for specific IoT devices and assign them to existing users.

ASSIGN TO DEVICE

Efento Temp Probe

DEVICE RULES

This device uses Rules set on the device to define alert conditions. Please select the Device Rule you want to trigger this Alert.

Rule 1
Temperature is above -10.5°C for last reading.

Edit Device Rules

STATUS

☒ Enabled

☐ Disabled

SCHEDULE

ALWAYS ACTIVE

ALERT NAME

RECIPIENTS

[Groups](#)
[Alerts](#)
[Reports](#)
[Users](#)

POORN NAKKAWITA

ALERT STATUS

☒ Enabled

☐ Disabled

ALERT SCHEDULE

ALWAYS ACTIVE

Mon

Tue

Wed

Thu

Fri

Sat

Sun

All day

9 am to 5 pm

This alert will trigger from 9am to 5pm on Mo, Tu, We, Th, Fr.

IoT Bridge

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Create Alert

Create an Alert for specific IoT devices and assign them to existing users.

ALERT NAME

Deep Freezer above -10.5

ASSIGN TO DEVICE

Efento Temp Probe

DEVICE RULES

Rule 1
Temperature is above -10.5°C for last reading.

WHEN THRESHOLD REACHED, INFORM ME

Immediately

SCHEDULE

Always active

RECIPIENTS

Finn Stainton

EMAIL SMS

TYPE

Inform only

STATUS

Enabled

Confirm

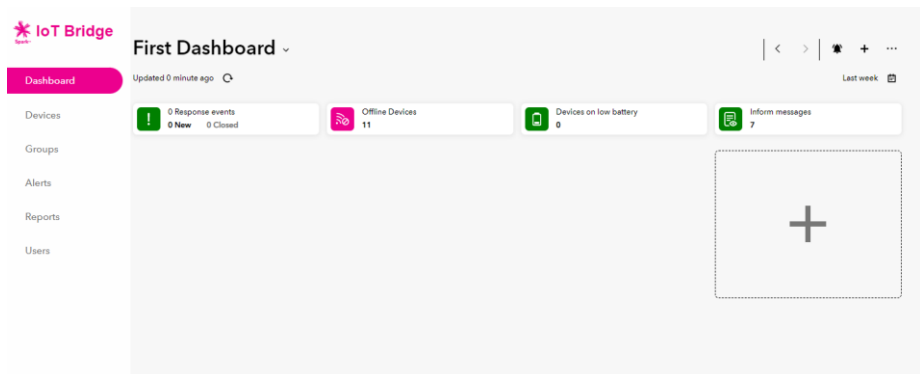
Edit

Dashboard

The IoT Bridge Dashboard is best viewed on a desktop PC, laptop, or a tablet.

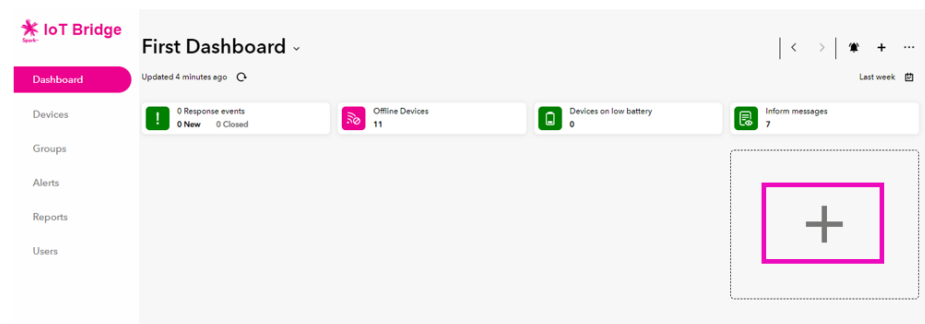
1.

Log in to IoT Bridge and click **Dashboard**



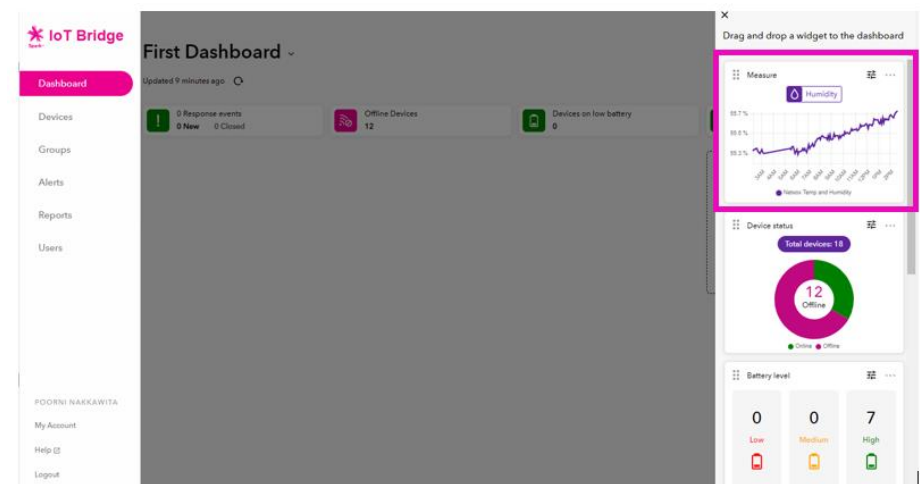
2.

To display a widget on the dashboard, select “+”



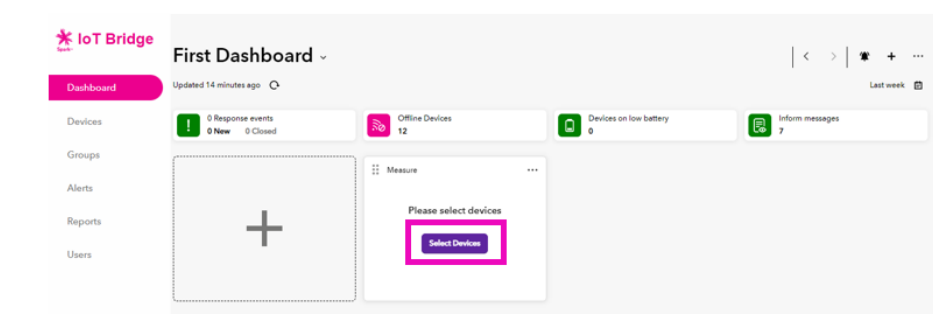
3.

Select the widget you want to add and drag and drop to the dashboard.



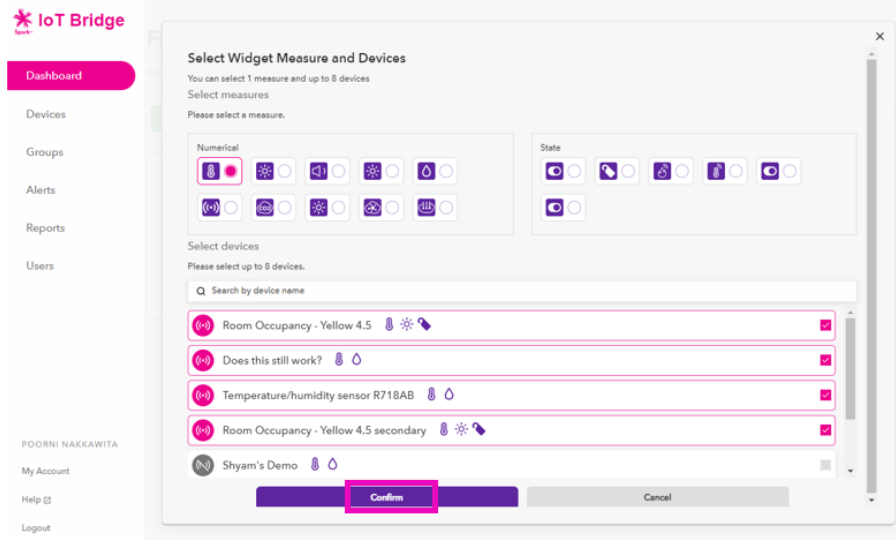
4.

For “Measure” widget you can select 1 measure and up to 8 devices. Click **Select Devices**



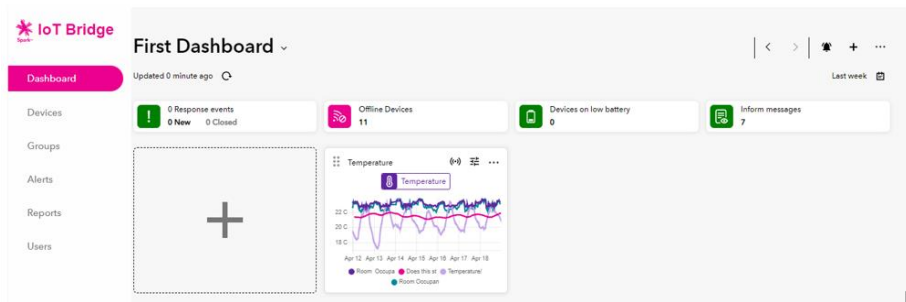
5.

Select a “Measure” and select the devices. Click **Confirm**



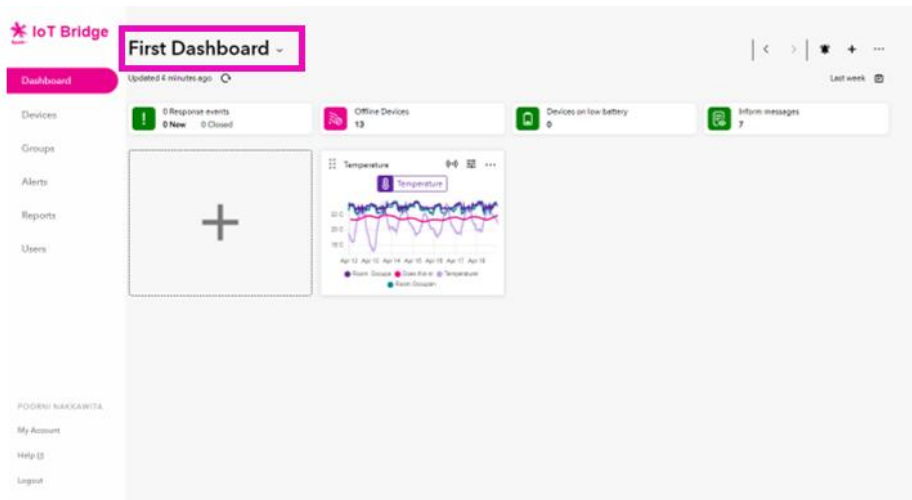
6.

Repeat if you want to add more widgets.



7.

To change the Dashboard name click “First Dashboard”



8.

Type the Dashboard name click the tick to confirm.



9.

All Done.

Check device insights

1.

Log in to IoT Bridge and click Devices in the menu on the left

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

ABHISHEK RATTAN

My Account

Help

Devices

View, register and manage IoT devices.

Search by device name or type

+ Add new device

Atrium - outside Front Room

22.16°C 50.7%

2 hours ago

Front Room drinks fridge

22.2°C 50.9%

18 minutes ago

Front Room - ambient

21.49°C 62.16%

a year ago

KITCHEN DEVICES

2.

The device list can be filtered by the battery levels

IoT Bridge

Dashboard

Devices

Groups

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Users

Devices

View, register and manage IoT devices.

Search by device name or type

Filter by Battery Level

Select

Low (0 - 30%)

Medium (31 - 79%)

High (80%)

Unknown (Battery N/A)

pancy - Yellow 4.5

83% 22.93°C 3lux 0-0 Occupancy

5 minutes ago

LIVE DEVICES

3.

Find the device you want to check by either scrolling through the device list, using the search bar, or navigating to it via the Groups menu on the left hand menu

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

Devices

View, register and manage IoT devices.

Search by device name or type

+ Add new device

Atrium - outside Front Room

22.16°C 50.7%

2 hours ago

Front Room drinks fridge

22.2°C 50.9%

18 minutes ago

4.

Select the device by clicking on it.

IoT Bridge

Devices

Groups

Alerts

Reports

Accounts

ABHISHEK RATTAN

My Account

Help

Logout

Front Room drinks fridge

100%

Insights

Alerts

Reports

Device

CURRENT READINGS

Readings as at: 16 Jun 2022 4:51pm

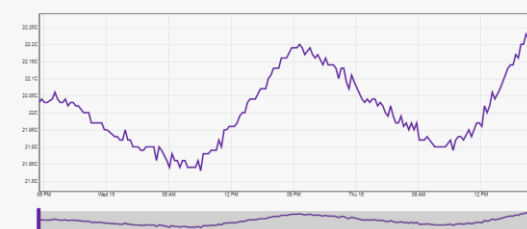
22.2°C 50.9%

Refresh

HISTORICAL INSIGHTS

Measure Temperature

Alert None



CSV

5.

Select the sensor measure you want to display, date range, and whether you want to map alerts onto the chart.

6.

If you need to analyse the data further use the .csv export button to download a copy of the data.

7.

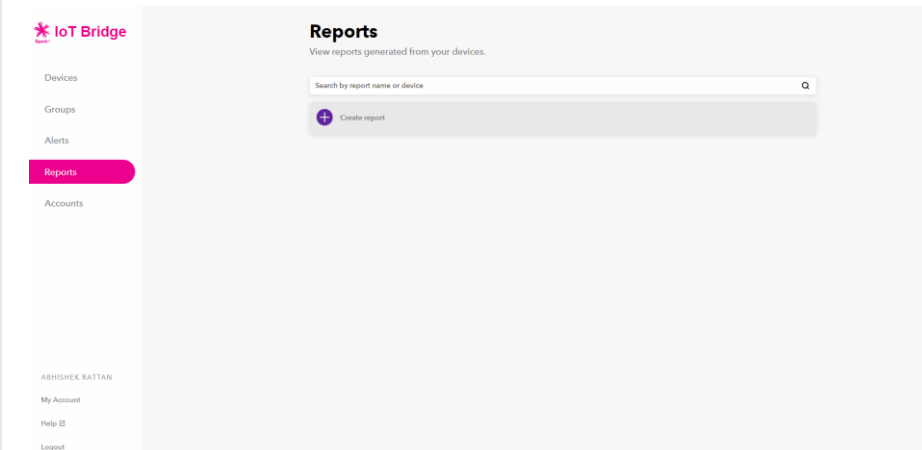
All done.



Create a report

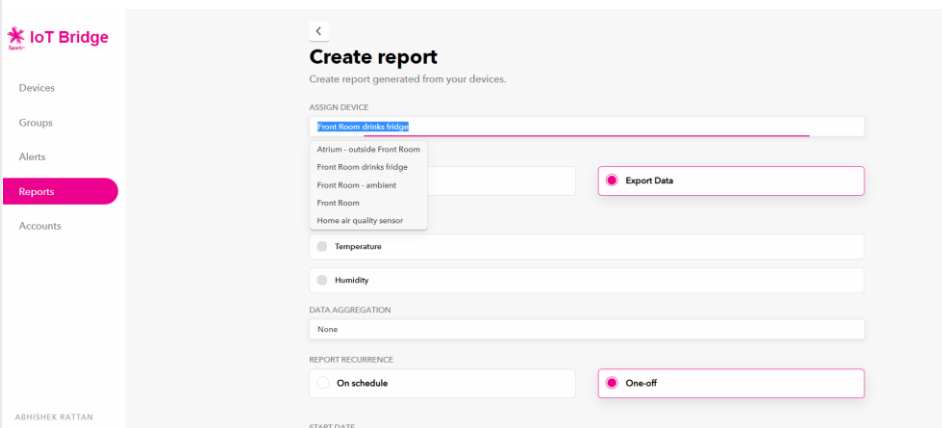
1.

Log in to IoT Bridge and click **Reports** in the menu on the left



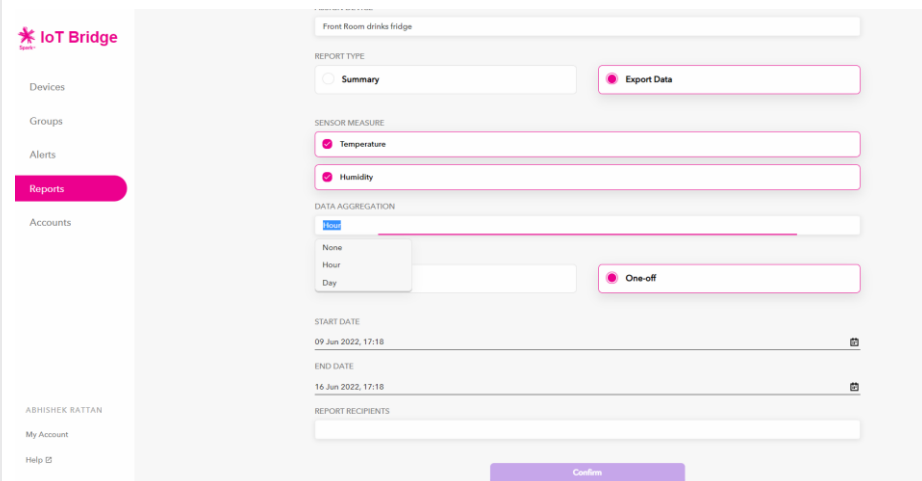
2.

Click **Create report** and select a device for your report. Start typing the device name in the ASSIGN DEVICE field. A list of your devices will appear to help you find the right one.



3.

- Choose the data type for the alert; and select if you want your data aggregated.
- a. Use “None” to display all data points that have been collected during the specified period
 - b. Use “Hour” or “Day” to show the Minimum, Maximum and Average values for each hour or day within the specified period.



4.

To create a recurring report, select **On schedule**. To create a one-off report, select **Ad hoc**. Fill out report details as required.

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DATA AGGREGATION

Hour

REPORT RECURRENCE

☒ On schedule☐ One-off

REPORT NAME

DATE RANGE

Reports cover the calendar/day 24-hour period from midnight to midnight. You can choose the time the report is sent to recipients.

REPORT FREQUENCY

Daily

The daily report covers a 24-hour long period. The report is sent out the following day and repeats daily.

REPORT DELIVERY

Target delivery for 5:00pm - 6:00pm

REPORT RECIPIENTS

STATUS

☒ Enabled

12:00am - 1:00am
1:00am - 2:00am
2:00am - 3:00am
3:00am - 4:00am
4:00am - 5:00am
5:00am - 6:00am
6:00am - 7:00am
7:00am - 8:00am
8:00am - 9:00am
9:00am - 10:00am
10:00am - 11:00am
11:00am - 12:00pm

5.

Add report recipients. Being typing in the REPORT RECIPIENTS field to show the list of available users. All recipients need to have been setup as IoT Bridge users. You can add as many recipients are needed.

Review the report details and click **Confirm**.

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REPORT RECURRENCE

☒ On schedule☐ One-off

REPORT NAME

DATE RANGE

Reports cover the calendar/day 24-hour period from midnight to midnight. You can choose the time the report is sent to recipients.

REPORT FREQUENCY

Daily

The daily report covers a 24-hour long period. The report is sent out the following day and repeats daily.

REPORT DELIVERY

Target delivery for 5:00pm - 6:00pm

REPORT RECIPIENTS

Abhishek Rattan

STATUS

☒ Enabled☐ Disabled

Next

6.

All done.



Report Requested

The ad hoc report request has been successfully requested

Report is being generated

Once completed, all recipients will receive an email with the download link.

[Back to reports](#)

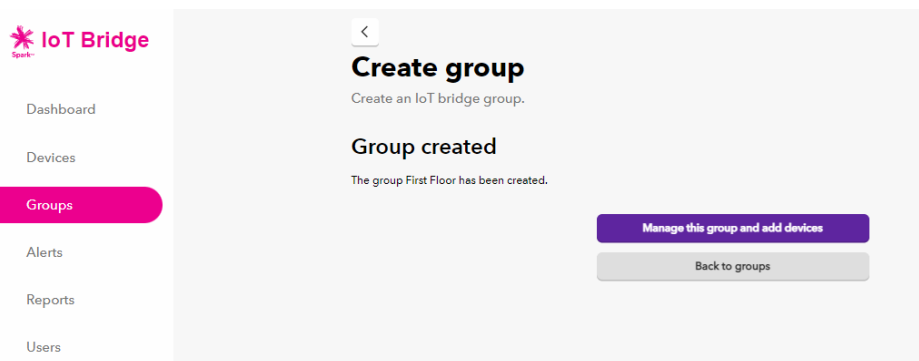
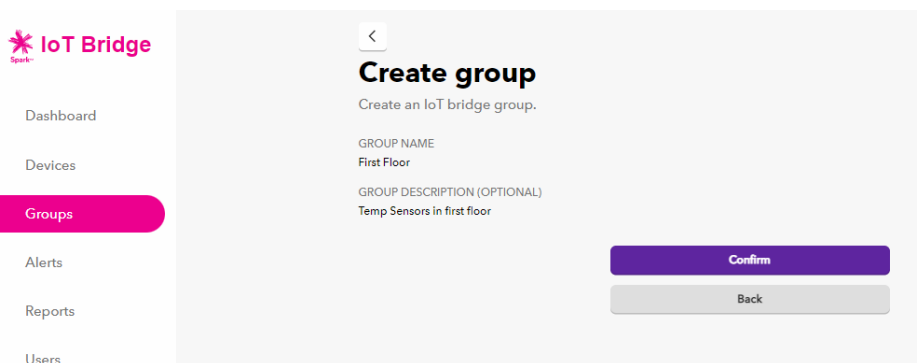
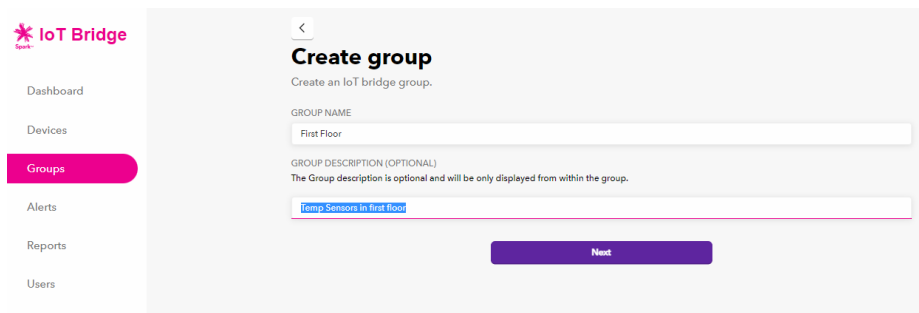
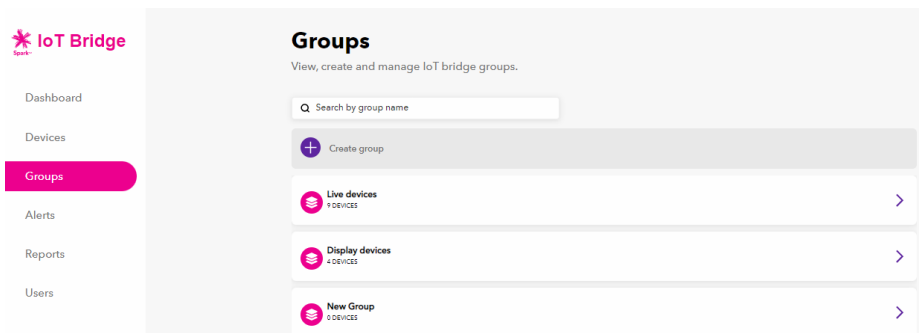
Groups

1. Log in to IoT Bridge and click **Groups**

2. Click **Create Group**. And enter Group name and Group Description (Optional). Click **Next**.

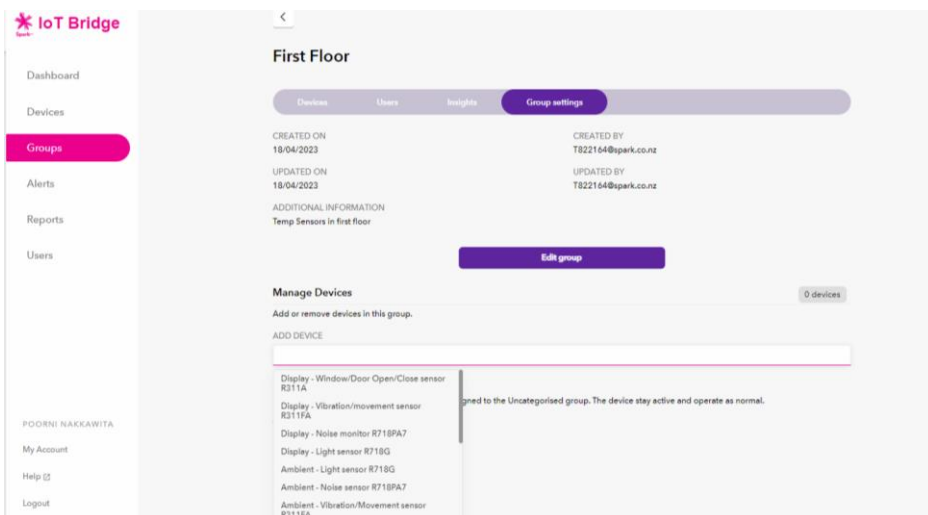
3. Check the details are correct and click **Confirm**. .

4. To Add device and Manage the group click **Manage this group and add devices** and add devices.



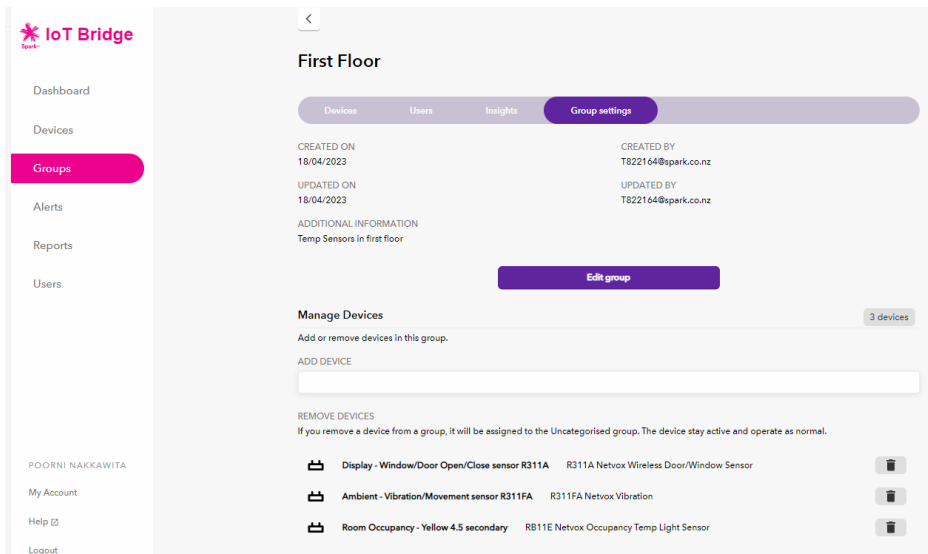
5.

To add devices click “ADD DEVICES” and list of devices will populate as a drop down. Select the devices.



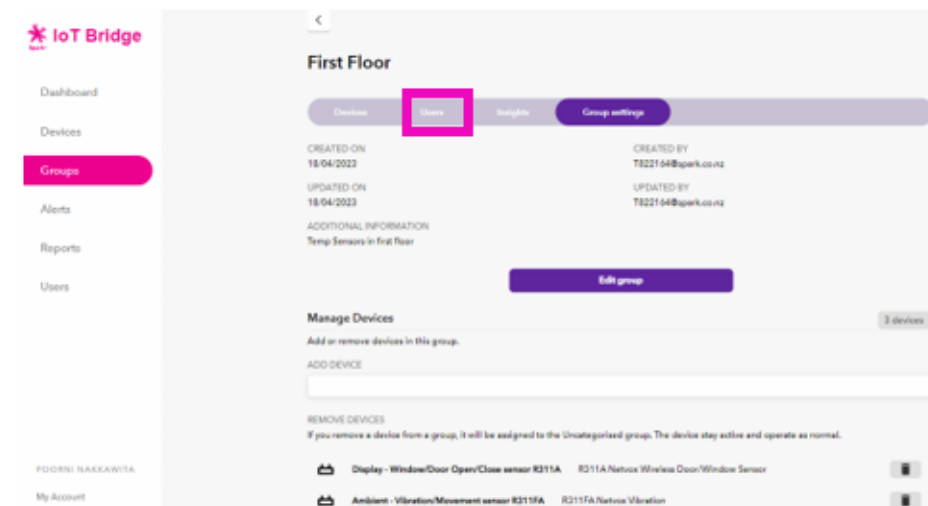
6.

Repeat until you have added all the devices.



7.

Click **Users** to assign users to the group.



8.

Click **Add User to the group** to assign users to the group.Repeat until you have added all the relevant users to the group.

