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how to series

How to add a The Things Network device





HOW TO ADD A TTN DEVICE TO COLIBIRD

Introduction

Colibird is designed from the start as a tool that removes complexity to deliver value in a easy and accessible way.

As part of Switzercloud, Colibird provides a simple, smart and powerful way of visualising many IoT use case from anywhere, anytime with just a few clicks.

Switzercloud is proud to bring your IoT use cases to life with Colibird.





HOW TO ADD A TTN DEVICE TO COLIBIRD

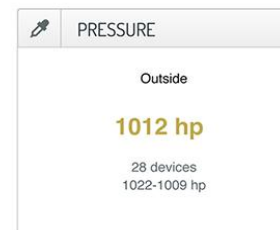
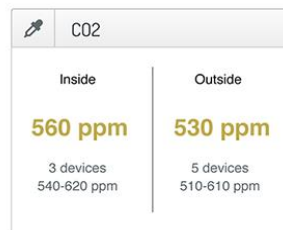
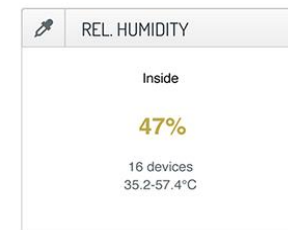
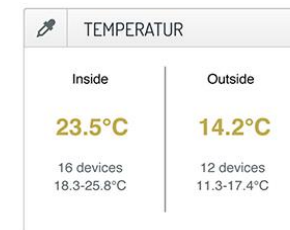
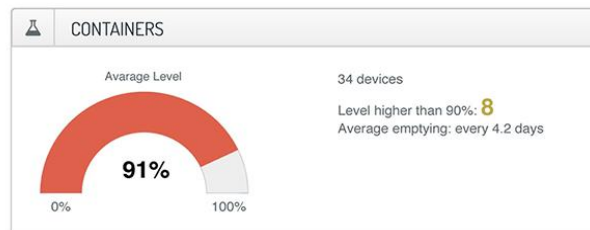
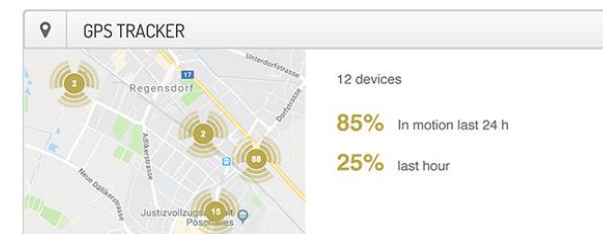
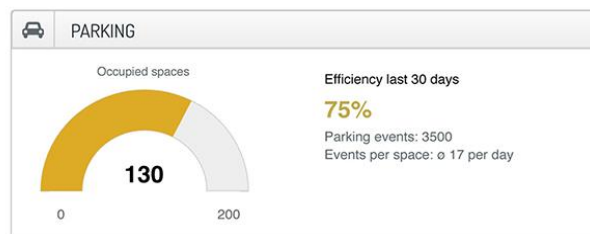
Before you start

Make sure your device is supported by Switzercloud

- Check here [SEE SUPPORTED DEVICE LIST](#)

Make sure you have your;

- Device EUI
- Application ID
- Access Key
- The right Host address for your region (EU, US, Asia, etc) or for your installation



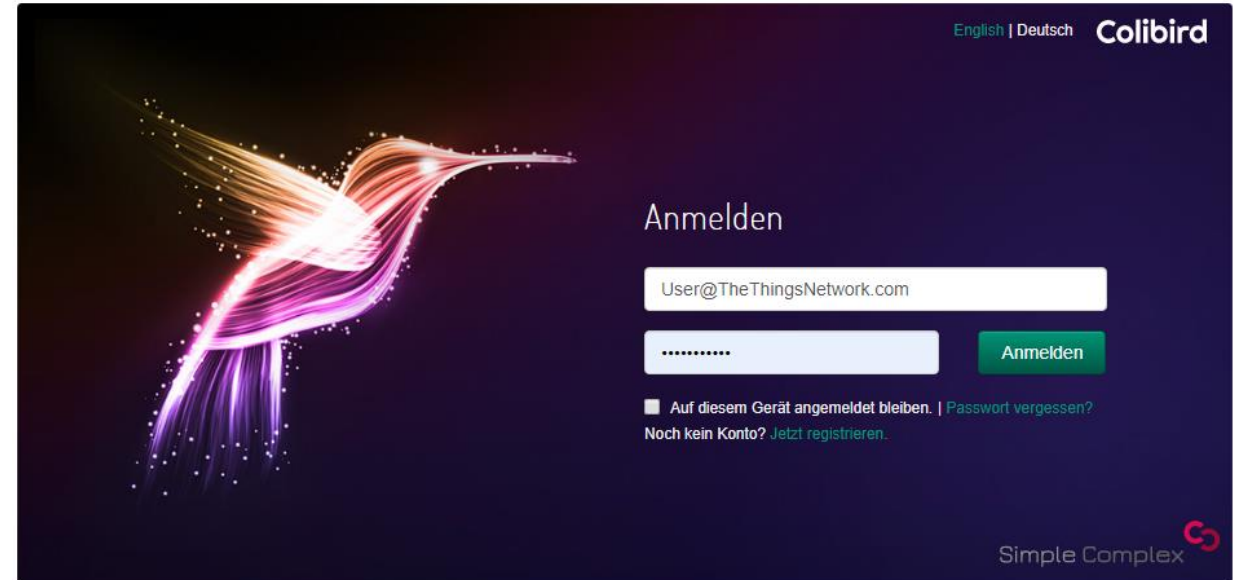


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HOW TO ADD A TTN DEVICE TO COLIBIRD

Lets go

- Login to Colibird
<https://switzercloud.colibird.ch/>
- If you don't have an account, register here
<https://switzercloud.colibird.ch/register/>
- Once you have received your login activation return to Login





HOW TO ADD A TTN DEVICE TO COLIBIRD

Create a Device Group or a Building

Colibird gives you a choice for how to manage your IoT devices

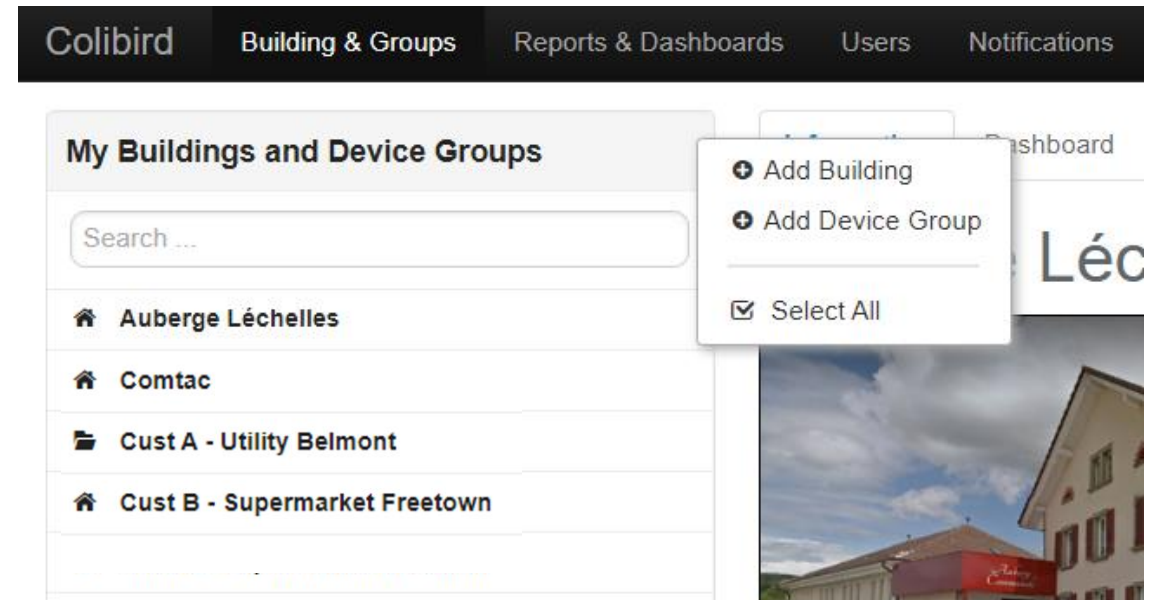
Manage as a Device Group

Create a virtual device group and sub-groups where you categorise and assign IoT devices as you wish eg. by function, type, use case, etc

Manage as a Building

Assign devices to a physical building such as an office building, hospital or hotel etc that has an address, surface area and floors

Click on the  and lets choose to **Add Device Group**





HOW TO ADD A TTN DEVICE TO COLIBIRD

Create a Device Group

Name the Device Group

Lets call this "**Facility Monitoring Regensdorf**"

Add a **Description**

Provide an **Address** for the Device Group

Colibird uses Google Maps to retrieve and suggest an address

Your newly created Device "**Facility Monitoring Regensdorf**" is now listed under *My Buildings and Device Groups*

However, your Device Group has no devices assigned to it yet

Lets add an IoT Device to it

A screenshot of a web application dialog box titled "Create New Device Group". It contains three input fields: "Name *" with the value "Facility Monitoring Regensdorf", "Description" with the value "Climate Condition Monitoring - Althard Center Regensdorf", and "Address *" with the value "Althardstrasse, 10". Below the address field, a blue suggestion box displays "Althardstrasse 10, 8105 Regensdorf, Switzerland". At the bottom right, there are "Create" and "Cancel" buttons.

Facility Monitoring Regensdorf
<i>Meters / Devices</i>
<i>Device group has no sub groups</i>
Gifitz-Fuchsgasse 19





HOW TO ADD A TTN DEVICE TO COLIBIRD

Add a device to your Device Group

Click on the settings wheel located to the right and next to "Facility Monitoring Regensdorf"

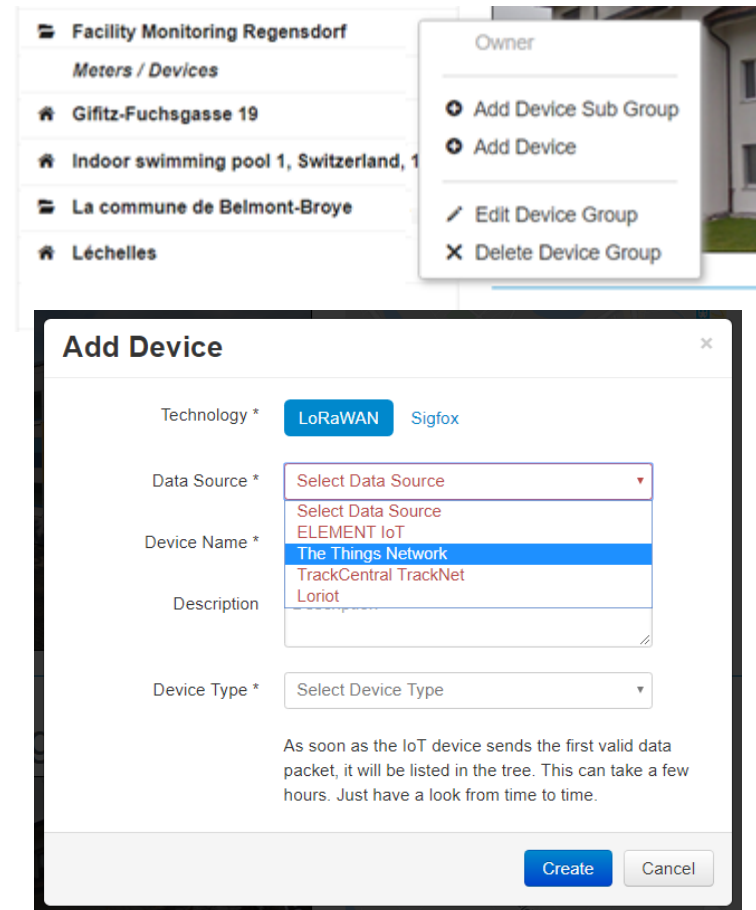
Choose **Add Device**

A pop-up window will open.

Choose **LoRaWAN** as IoT **Technology***

And choose **The Things Network** as a **Data Source**

* We are continually adding different IoT technologies and data sources to Switzercloud in order to provide our customers and partners with greater choice, flexibility and greater value.





HOW TO ADD A TTN DEVICE TO COLIBIRD

Add a device to your Device Group

Lets enter "**Indoor Climate Conditions**" as a **Device Name**

And provide a short **Description** of what it is monitoring

Enter the **Device EUI**, **Application ID** and **Access Key**

These should be provided with the device

Enter the **Host** details

Take this from The Things Network

Choose one of the 50+ **Device Types** already parsed in Colibird

Lets choose **Decentlab Indoor Ambiance Climate**

Click **Create**

A screenshot of the "Add Device" form in the Colibird interface. The form is titled "Add Device" and contains several fields for device configuration. The "Technology" field is set to "LoRaWAN". The "Data Source" is "The Things Network". The "Device Name" is "Indoor Climate Conditions". The "Description" is "Climate conditions in School Lecture Hall A". The "Device EUI" is "0123456789ABCDEF". The "Application ID" is "58A0CB0001500000". The "Access Key" is "19EF82352345AF172FE86EC9286A6B01". The "Host" is "eu.thethings.network:1883". The "Device Type" dropdown menu is open, showing a list of device types, with "Decentlab Indoor Ambiance Climate" selected and highlighted in blue. Other visible device types include "Adeunis Comfort", "Adeunis Dry Contact (status only)", "Adeunis Pulse (2 Inputs, kWh)", "Adeunis Temp V2 (ARF8180BA)", "Adeunis Temp V3 (ARF8180BA)", "Avectris IR Head", "Bosch Parking", "Comtac CM1", "Comtac MS3", "Comtac Teaser", "DZG LORAMOD R4", "Decentlab Level", "Decentlab Outdoor Climate", "Decentlab Total Solar Radiation", "Digital Matter Yabby GPS Sensor", "Elsys (ERS, ELT, EMS)", "Elvaco CMa11L", and "GWf Water".



HOW TO ADD A TTN DEVICE TO COLIBIRD

Add a device to your Device Group

Your new device "**Indoor Climate Conditions**" will remain unlisted until data is received by Colibird

Colibird will list all the sensors related to the device that have sent data.

Each sensor name can be edited*.

*We recommend keeping the EUI in the name to make identification & troubleshooting easier.

Your data is now available

The screenshot shows two panels of the Colibird interface. The top panel shows a folder named "Facility Monitoring Regensdorf" with a sub-section "Meters / Devices" containing the text "So far no data received". A blue arrow points down from this text to the bottom panel. The bottom panel shows the same folder and sub-section, but now lists several sensors under "Indoor Climate Conditions":

Meters / Devices
Indoor Climate Conditions
Airpressure Pa (EUI=70B3D57BA0000D04)
Batterylevel V (EUI=70B3D57BA0000D04)
Brightness (EUI=70B3D57BA0000D04)
CO2 EUI=70B3D57BA0000D04)
Humidity% (EUI=70B3D57BA0000D04)
Motion (EUI=70B3D57BA0000D04)
Temperature (EUI=70B3D57BA0000D04)
VOC (EUI=70B3D57BA0000D04)





HOW TO ADD A TTN DEVICE TO COLIBIRD

Your Device Group data

The **Information** tab shows general info about the Device Group.

It includes info such as amount of device sub groups and devices

The **Dashboard** tab shows a snapshot of the last measured data

Sharing the Dashboard is easy. Click on the standalone link at the bottom then copy/paste it into an email

The recipient can view the Dashboard in any web browser and always see the most recent data.

View an example here

<https://switzercloud.colibird.ch/diagrams/1d0368b60df8924a6890710cd475d50a0cfecaf2>

The screenshot displays the web interface for a device group. The top navigation bar includes 'Reports & Dashboards', 'Users', 'Notifications', 'Help Manual', and 'Contact'. The main content area is divided into two tabs: 'Information' and 'Dashboard'. The 'Information' tab shows the following details:

- Facility Management Regensdorf
- Climate Condition Monitoring - Althard Center Regensdorf
- Map showing the location at Althardstrasse 10, 8105 Regensdorf, Switzerland.
- Amount of Device Sub Groups: 0
- Amount of Devices: 1
- Authentication key: 264186cc4b75cfd84f80af44d19208a5
- On Colibird since: 2020.02.20

The 'Dashboard' tab shows a snapshot of the last measured data for four sensors:

Sensor	Value	Unit	Location	Count
Rel. Humidity	68.01	%rH	Inside	1 device
CO2	416	ppm	Inside	1 device
Pressure	970.10	hPa	Inside	1 device
Temperature	10.24	°C	Inside	1 device

At the bottom of the dashboard, there is a link: 'Generate standalone link for this dashboard'.



Your Device Group data

The **Chart** tab visualises all the data from sensors

Charts are viewed in different graphs and over any timeperiods.

Sharing charts with colleagues and customers is easy.

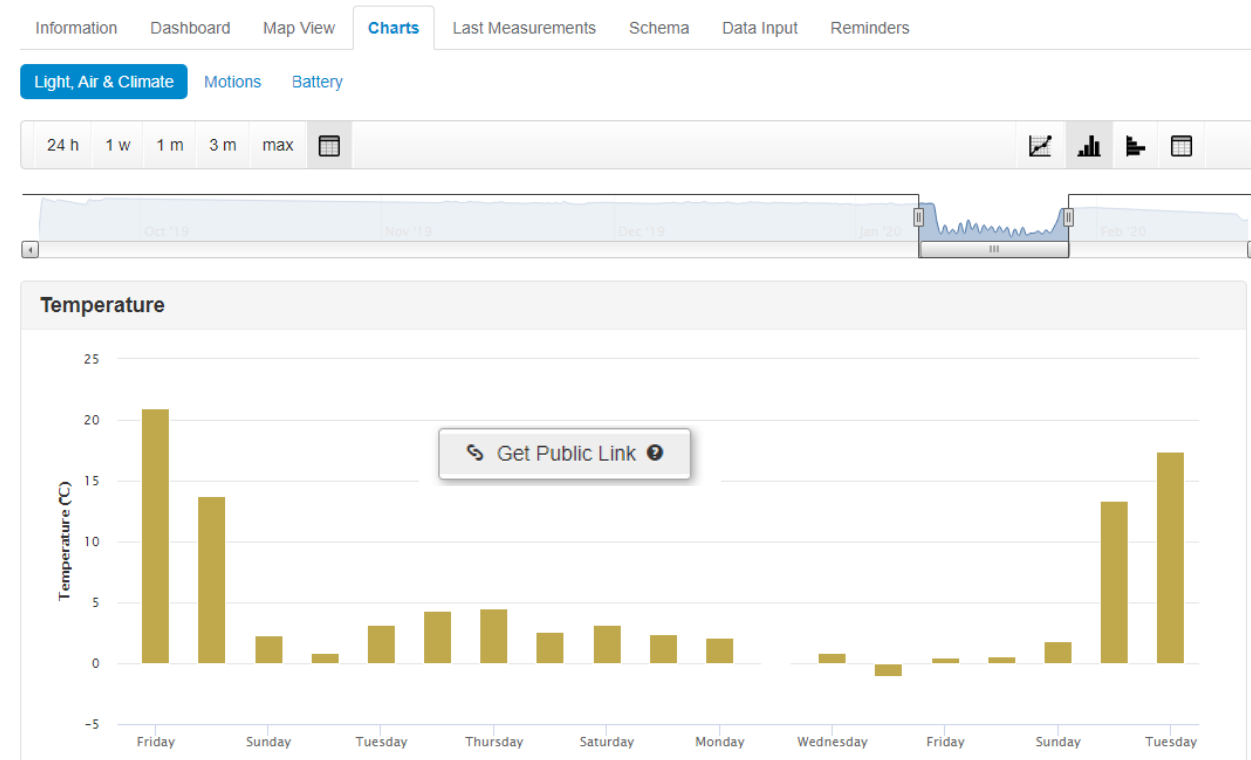
Right-click on the chart and select "**Get Public Link**". Choose the desired options and then click "**Get Public Link**" again

Copy/paste the link into an email.

The recipient can view the chart in any web browser and always see the most recent data.

View an example here

<https://switzercloud.colibird.ch/report/882a30fd355ab5478edb5b28fba26fd71d850ecf>





HOW TO ADD A TTN DEVICE TO COLIBIRD

Your data

Colibird presents data in different ways according to your IoT use cases. Have fun exploring your options!





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Still have questions?

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US





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YOUR APPLICATIONS. WHEREVER – WHENEVER.



TRACKING
OUTDOOR & INDOOR



MOTION



BATTERY STATUS



PUSH BUTTON



DOORS &
WINDOWS



FILL LEVELS



PARKING



CLIMATE &
AIR QUALITY



SECURITY &
SAFETY



ENERGY DATA



INDUSTRIAL
PROPERTIES



YOUR IDEA?





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