# QUICK START

Debut HUB is a powerful device normally used as a network gateway. With GPS, network communication modules, multiple sensors, flexible power-supply sources, and Druid's patented INTELINK technology, it is usually used in the wild field to provide network communication for other Debut devices, monitor colony entry/exit behaviors, and search for lost devices.

System Architecture

The flow-chart below shows how HUB functions as a gateway for communication between Debut devices and cloud server via cellular network. And you can also use your mobile phone to perform real-time operations on other Debut devices via HUB.
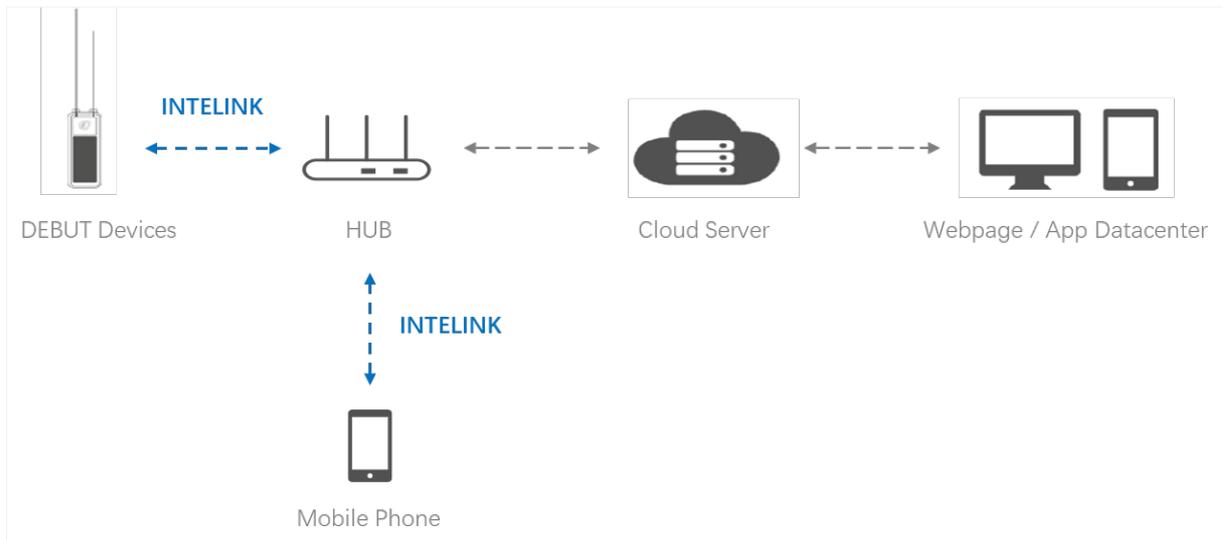
Before Using

Make sure you have an Ecotopia account to log in to Ecotopia App and data center.

- Ecotopia App: Search "Ecotopia" on App Store or Google Play. This is the App logo:
- Ecotopia data center: https://ecotopiago.com/#/login

You can operate all devices under the account after logging in. Before test, please switch the device status from the default "Suspended" to "Active".

Device status is related to data services items and data fee billing. Please read "**Help** > **Device status, data service items and pricing**" on the Ecotopia data center to know more details.

Getting Started

Step 1: Assign Devices to HUB

Log in to Ecotopia data center, and click "**Device** -> **Gateway**" from the left sidebar menu.

Here you will see your HUB device number (Device ID or UUID). Click to the number and then click [+] . From the list, you can choose the devices to assign to HUB.

> Note:
> · To protect privacy, HUB can only communicate with devices assigned to it.
> · You can assign one device to multiple HUBs.
> · HUB is also displayed in the "**Terminal**" list, because it also generates its own data like a tracking device. This part of data is displayed in "**Terminal**" page.

Step 2: Install Antennas for HUB

Install the three antennas for HUB as shown below.
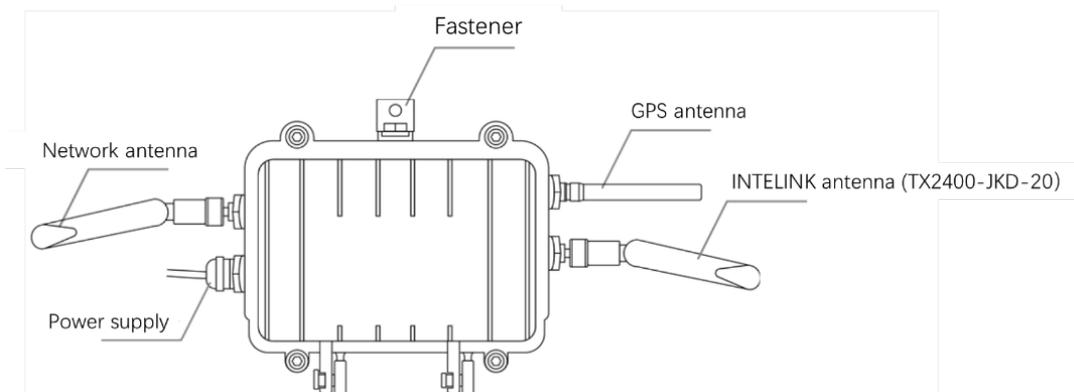
Step 3: Turn On HUB and Deliver Settings

We recommend that you always turn on a device with your mobile phone connected to network, especially for the first time of device initialization.

> Note: If you plan to initialize your device in an environment without mobile network, please make sure you have cached all necessary information in your mobile phone beforehand. For details, please read "**Help** > **Data Platform** > **Ecotopia App** > **Cache Management**" on the datacenter (https://ecotopiago.com/help/en/#/instruction/App/cache_setting).

1) Authorize Bluetooth to Ecotopia App, and log in with your account.

2) On Ecotopia App, tap ⊟ on top right to scan QR code on HUB, and follow the instructions to turn them on, and deliver the settings to the device.

> Note: "Setting delivery" is an important step to initialize your device. By doing this, the device can obtain the fine settings that are suitable for each sub-model. When your App is

connected to network, it will obtain the correct settings from the cloud server. Without network connection, the App will use the information you cached in your mobile phone.

Then, HUB will start to collect its own data, scan and communicate with Debut devices assigned to it, and transmit data automatically, following its settings.

> **Note:** As HUB can be used both as a terminal and as a gateway, it has two groups of settings. The settings you see on App and data center are its terminal settings. Its gateway settings (such as the scanning intervals, data downloading/uploading intervals, device entry/exit monitoring and reporting intervals, beacon locating switch, etc.) is not configurable on data center or App at this moment.
>
> If you want to know more or change the default gateway settings, you can always contact support@druid.tech.

Two Usage Scenarios

As Fixed Station

HUB can be fixed in a certain location to automatically scan for devices within its communication range, download data from them, deliver new settings to them, and monitor their entry/exit.

Below pictures show HUB deployment method. Use fasteners or tapes to fix HUB to a proper object.
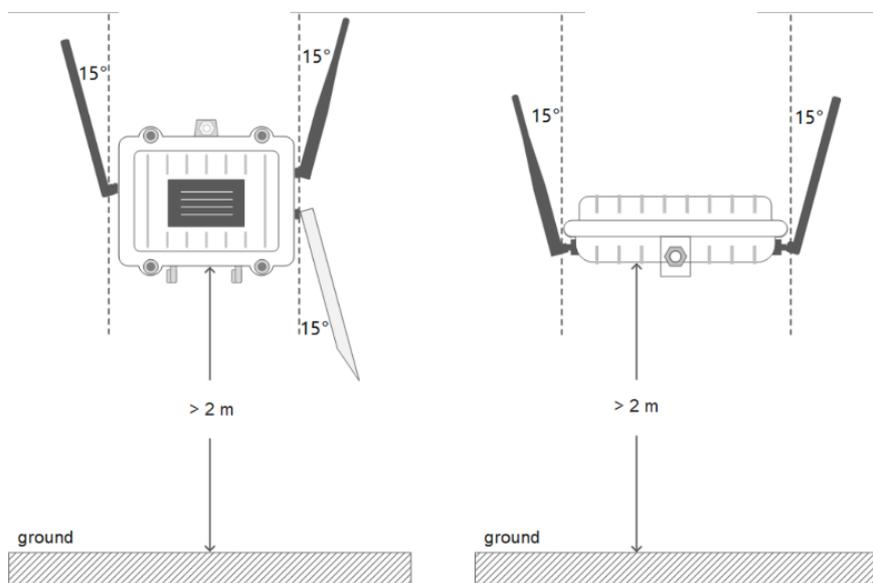
> **Note:**
>
> To achieve maximum communication range, it's suggested to deploy HUB in an open space without obstacles (such as walls, woods, or hills), and lift it to at least 2m from the ground beneath.

If the place you plan to deploy HUB does not have network signals, HUB can still download data

from other Debut devices, but will not be able to upload data to cloud server. In this case, you can visit HUB once in a while and use your Ecotopia App to download all data stored in HUB. When you come back to a place with network, you can upload those data via mobile network connection.

As Mobile Relay

As you know, a mobile phone can be used as a gateway for Debut devices, only with limited communication distance. But you can always use HUB as a relay to lengthen the communication distance to up to 1500 meters (depending on environment).

With HUB as a relay, you can connect your phone to devices remotely and perform real-time operations, such as showing all devices nearby on the phone screen, downloading their data immediately, changing their settings, or being guided to find a certain device.

Steps for using HUB as a relay:

1) Log in to your Ecotopia App, and make sure the HUB has been turned on.

2) Tap on App, and all Debut devices under the account are shown.

3) Tap to choose one device or tap and hold to choose multiple devices, and then choose the operation you want. You phone will automatically connect to the device via HUB if the device is out of the range of your phone.

When you're carrying HUB while walking/driving during fieldwork, please watch out and take care of yourself.

RECHARGING HUB

There are two ways to recharge the built-in battery of HUB:

• By power cable (provided along)

• By solar panel (provided along)

SATISFACTION GUARANTEE

Druid Technology offers triple satisfaction guarantee to relieve you from any worries.

6-Month Return & Refund (customized products not included)

You can apply for return & refund within 6 months since the date of purchase, if you are not satisfied with the device.

Requirement: The device hasn't been deployed or damaged, as remotely tested and confirmed by Druid. Shipment cost and data service fee incurred in the period will be covered by either party as appropriate.

1-Year Warranty

You can get free repair or replacement within 1 year since the date of purchase if the device hasn't been deployed [1] and is not damaged by improper storage, usage, and maintenance [2].

Debut Renewal Plan (Optional)

Apart from return & refund and warranty policy, you can purchase Debut Renewal Plan as a lifetime insurance that offers you a new device without condition. You can also purchase renewal plan for the replaced new device. After you use the service, the status of the old device will turn to Terminated.

[1] Collateral damages may be incurred due to accidental death, collision or missing, etc. of animals after deployment. As a result, devices deployed will not be covered by one-year warranty.

[2] Improper storage, usage or maintenance may cause permanent damage and affect warranty. Please read the following cautions carefully:

- Keep the surrounding environment temperature of the device under 60 ℃ in any circumstances. Otherwise, permanent damage may happen to the device;

- Keep the device away from magnetic field or electric field (for example, a transformer);

- Take proper protection measures to prevent the device from falling on hard surfaces;

- Don't dismantle the device on your own.

Battery drain happens to lithium battery when you are not using the device. Overcharge and long-time low batter-level both hurt battery performance and life. It is suggested to charge the device for 1-2 day every 2 months to maintain proper battery level. When you dispose your device and/or other batteries, make sure that it is done sustainably.