

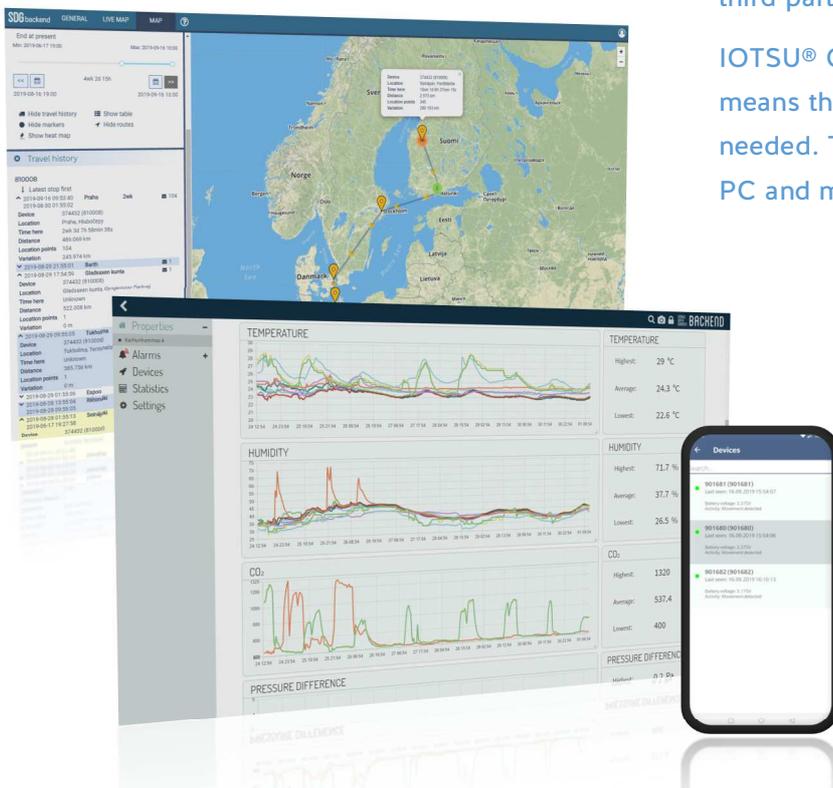
Introduction

IOTSU® Cloud is a web based cloud platform that offers intuitive tools for accessing the data gathered by IOTSU® sensor nodes. With IOTSU® Cloud you are able to effortlessly manage your sensor fleet.

The user interface allows the user to visualize and compare the data collected by various sensors, set and acknowledge alarms and transfer any data to a third party software for further analysis.

IOTSU® Cloud is a web based application, which means that no separate software installation is needed. The platform functions seamlessly on both PC and mobile devices such as phones and tablets.

IOTSU® Cloud is a secure and easy to use tool for managing your devices. The web application is password protected and every connection is encrypted.



FEATURES AND BENEFITS

- **EASY TO USE AND INTUITIVE:** Just log in and use.
- **WEB-BASED AND SECURE:** Every connection is HTTPS-encrypted.
- **DEVICE AGNOSTIC:** Works on computers and mobile devices.
- **ALERTS:** Receive alarm notifications by email or directly to your phone.
- **FLEET MANAGEMENT:** Get an overview of your device fleet with a glance.
- **DATA EXPORT:** Easily export saved data in csv-format.
- **LOCALIZATION:** Multiple languages available.
- **INTEGRATION:** Flexible REST API available for system integrators.

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BASIC FEATURES

Smart features for efficient use.

Logging in and account management:

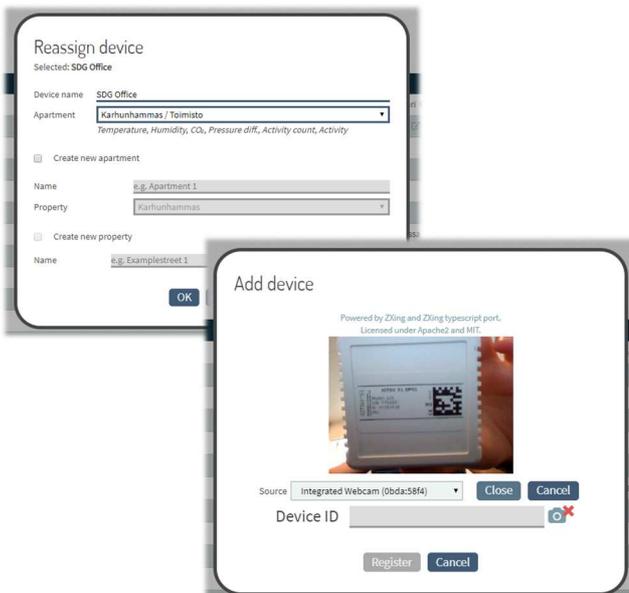
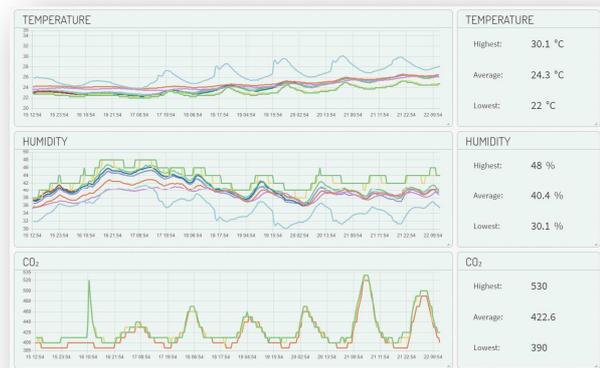
A personal user account is used to login to the platform. Personal details such as email address and password can be changed in the user account management page.

Device management:

Devices can be added and removed freely by providing a unique identifier of a device or by scanning the 2D barcode located on the device. The barcode can be scanned with the integrated camera of a laptop or a smartphone.

Visualising data:

Data can be visualised with charts, graphs and lists. You can select which data is presented and configure the visualisers to suit your needs. You can also pick the time range and scale the charts.



Data export:

All data is available to be exported to third party software via csv export. The system generates a csv data file that can be imported to for example Microsoft Excel. This allows the data to be used in flexible ways.

Language and localization:

Language of the user interface can be swapped from the user settings. English and Finnish languages are available by default. Please contact technical support for more options.

Once added, the devices can be organized to groups to help manage them. For example in housing applications the devices can be organized hierarchically by building, apartment and room to save valuable time when analysing the data.

Time zone and time format can also be adjusted to fit the need.



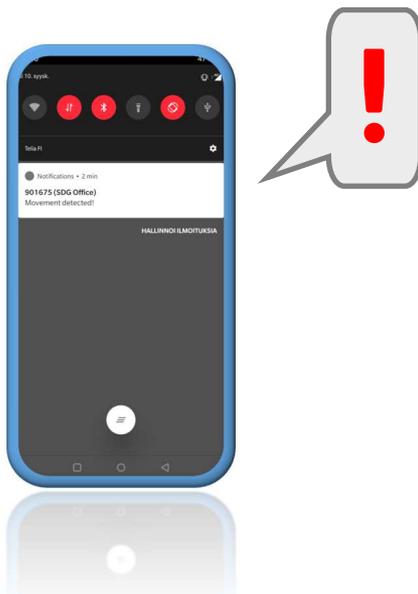
ADVANCED FEATURES

Sophisticated features that make the difference.

Configurable thresholds and alarms:

Thresholds can be set for individual devices or whole groups. If a measurement crosses the threshold an alarm is triggered. An alarm message can be automatically sent to one or more configurable email addresses. Alternatively you may receive push notifications straight to Android phones or SMS text messages to any other phone.

An alert will also be raised if a device is running out of battery or it has already stopped sending data. These features help you stay informed on the status of your device fleet.



Over-the-air device configuration:

Devices can be configured over-the-air via downlink messages. You can select the new parameters to the device and the platform makes the modifications over-the-air. The most common parameters include measurement and transmission period, transmit power and other sensor behaviour settings.

Reporting:

Application specific reports can be generated from the IOTSU® Cloud platform. For example monthly temperature logs or weekly visitor count reports can be generated automatically and sent to the recipients email. The layout and visuals of the reports can be configured to suit the use case.

Data analysis:

IOTSU® Cloud can be utilized for analytics and data crunching. Predictive analytics and other big data methods can be implemented to the cloud platform to extract invaluable data from the growing masses of data. Example use cases are room utilization analysis and indoor air quality evaluation.

