



# INTERNET OF THINGS

## INTELLIGENCE AND CONNECTIVITY FOR YOUR OPL LAUNDRY

DANUBE Online is DANUBE's free, standard platform for centralising your laundry management using IoT to monitor, control and optimise your machines and resources remotely, in real time, wherever you are, with a computer, tablet or smartphone.

You have immediate access to your information via the cloud, enabling you to make rapid decisions to reduce your operating costs and maximise operational efficiency.

## A LOT OF ADVANTAGES

### **Avoid unnecessary travel**

Owners, technicians and chemicals can remotely control each machine to improve the process, without wasting time, ensuring efficiency while reducing costs.

### **Keep consumption under control**

You can check the consumption and performance of your machines, with precise metrics, in real time. Thus you can generate customised reports.

### **Manage your business**

You control machines, programmes and user access from anywhere, at any time, giving you great flexibility.

### **All your information centralised**

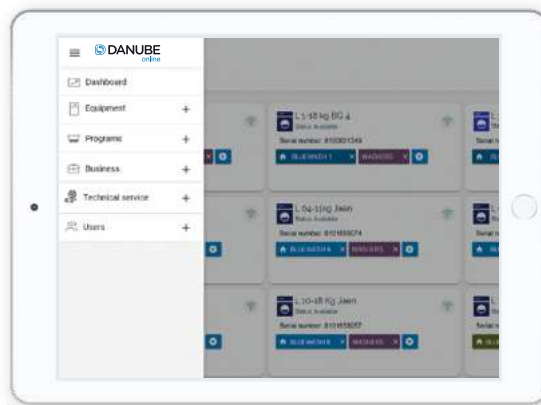
Thanks to the IoT, all data relating to consumption and efficiency is integrated in a single place, simplifying operational management.



# WHAT IS THE INTERNET OF THINGS ?

The IoT or Internet of Things is the digital interconnection of everyday objects with the Internet, enabling them to interact with data in real time.

In the context of industrial laundry, the IoT makes it possible to remotely control your business, optimise machine use and manage processes more efficiently and intelligently.



## MAIN FEATURES

### Easy to use

Thanks to an intuitive interface that prioritises an optimal user experience.

### Multi-language

Already available in several languages, and under continuous development to add more.

### Universal

Accessible from any device (computer, tablet or smartphone) or directly by connecting to a monitor in your facility.

### Secure connection

Your data is protected by advanced protocols that guarantee its availability, integrity and confidentiality.

### Constantly evolving

A dedicated team is constantly working to improve and add new features to the platform.

# THE IOT, THE KEY ELEMENT IN CREATING AN INTELLIGENT LAUNDRY

## What is INTELLIGENT LAUNDRY by DANUBE ?

This is the laundry of the future, with high-performance, connected machines offering cutting-edge technology to manage and monitor your laundry in real time, more efficiently and more rapidly.

Thanks to the data collected via the IoT and the DANUBE Online platform where it is centralised, you will be able to optimise all the operations of your Intelligent Laundry in real time and reduce your operating costs accordingly, thanks to this accurate data.



### Precise management

Control consumption\* by laundry, machine or period and efficiently manage resources.



### Improving hygiene

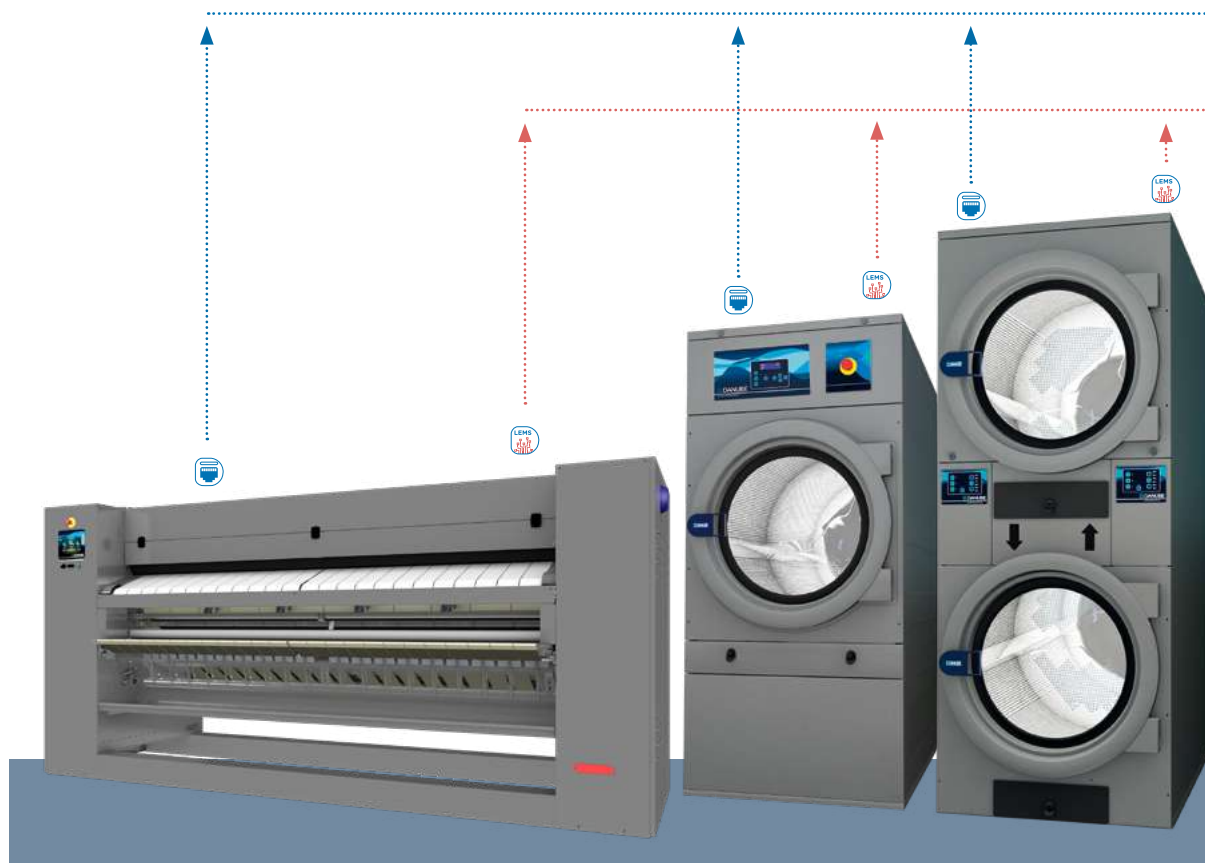
Monitor temperature, wash times and chemical usage in real time, to ensure a hygienic process that meets RABC standards.



### Increasing efficiency

Optimises the use of water, energy, gas, chemicals and time in each cycle, to significantly reduce costs.

\*The data recovered by LEMS are provided for information only and may differ in certain cases due to technical factors beyond ONNERA's control. Consequently, ONNERA Group cannot be held responsible for any claims or economic losses resulting from their use. These data are provided for informational and management purposes only, not for legal purposes.



# THE THREE KEY FACTORS OF AN INTELLIGENT LAUNDRY



**1** Efficiency of DANUBE machines and solutions



**2** Recovery of consumption data by LEMS



**3** Remote monitoring and management with DANUBE Online





# THE THREE KEY FACTORS OF AN INTELLIGENT LAUNDRY

## 1 Connected machines and efficient solutions

DANUBE machines controlled by EASY TOUCH 2 offer free, standard connectivity, thus they are ideal for transforming your laundry into an intelligent, efficient one.

Combined with the various solutions offered by DANUBE, they provide total control of all laundry operations and guarantee more efficient, more economical and more profitable management of resources.

### Reduce costs even further thanks to:

#### ET2 DANUBE washers + AQUABAC XL

By adding AQUABAC XL 1,000-litre water recovery tanks and the automatic weighing system to the washers, it is possible to save between 40% and 70%\* of water per cycle, optimising resources without compromising performance.

\* Percentages depending on the type of programs, garments and processes



#### ET2 DANUBE dryers

Equipped with efficient features such as the AIR RECYCLE system to reuse hot air and intelligent CARE DRY humidity control, these dryers optimise each cycle to reduce both energy consumption and drying time.



## 2 Recovery of consumption data by LEMS

The **LEMS (Laundry Efficiency Management System) pulse concentrator** collects precise data from counters installed on each machine to generate a wide range of metrics concerning your laundry. This data is then transmitted to the **DANUBE Online** platform via the IoT.



- ✓ It **measures** water, gas and electricity consumption in real time. \*
- ✓ It **transmits** the data automatically and securely to the IoT DANUBE Online platform.
- ✓ **Up to 31 machines** can be connected per LEMS concentrator.

## 3 Remote monitoring and management with DANUBE Online

DANUBE's free standard IoT platform centralises all your laundry's key indicators in a single integrated system that you can access in real time, wherever you are.

- ✓ **Machines data:** performance, status, alerts, programmes in use and efficiency.
- ✓ **Actual consumption (LEMS):** water, energy and gas, broken down by machine and cycle.
- ✓ **Customised reports:** facilitate decision-making with detailed analysis and automatic reports on efficiency and savings.

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The DANUBE Online solution brings added value to machines, with numerous advantages and a high level of comfort for many user profiles:



## Owners

- ✓ Manage your business remotely and save time and travel.
- ✓ Optimise your processes via a user-friendly interface.
- ✓ Obtain detailed reports on productivity, consumption, cycles.
- ✓ Control machines and processes of washing and drying.
- ✓ Ensure hygiene, disinfection and quality in each cycle.

**+ information + security + control**



## Technical service

- ✓ Improve customer service with faster assistance
- ✓ Diagnose and solve incidents remotely.
- ✓ View data from cycles run with the new telemetry.
- ✓ Update software remotely so that machines are always up to date without having to visit the site.

**+ efficiency + support + information**



## Chemical partners

- ✓ Create and manage wash programs online.
- ✓ Ensure efficient processes to guarantee hygiene and quality in every cycle.
- ✓ Access complete new telemetry for each programme carried out.
- ✓ Adjust and optimise product dosing using data provided by the new LEMS pulse concentrator.
- ✓ Connect dosing systems.

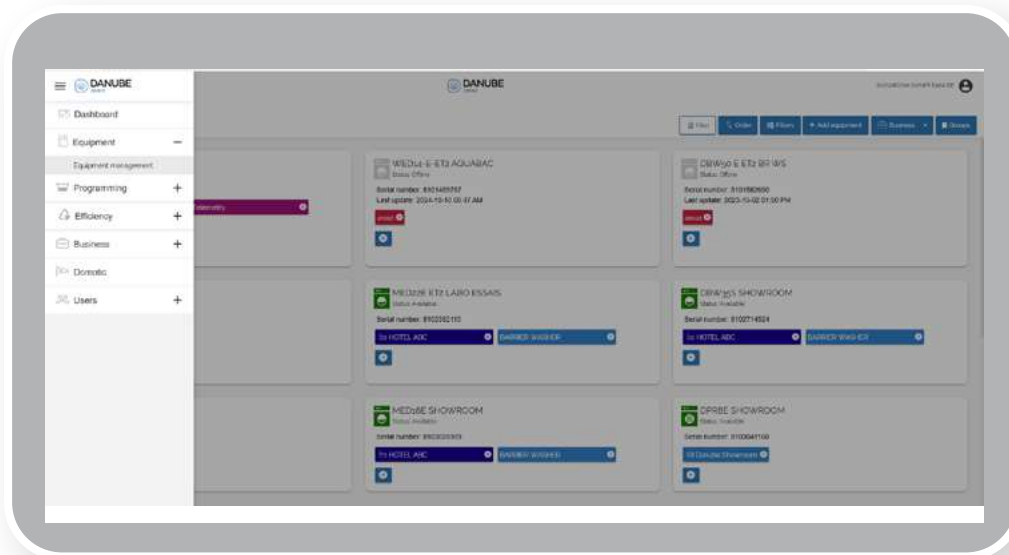
**+ information + management + ease**





# MAIN FEATURES

Thanks to an intuitive interface, you can easily access a whole range of functions from the main menu to manage your laundry.



## Dashboard

The control panel is the most important part of the day-to-day running of your laundry.

## Machines

Organise, manage, filter and obtain real-time data from your machines simply and intuitively.

## Programming

Control and modify wash and dry programmes remotely.

## Efficiency

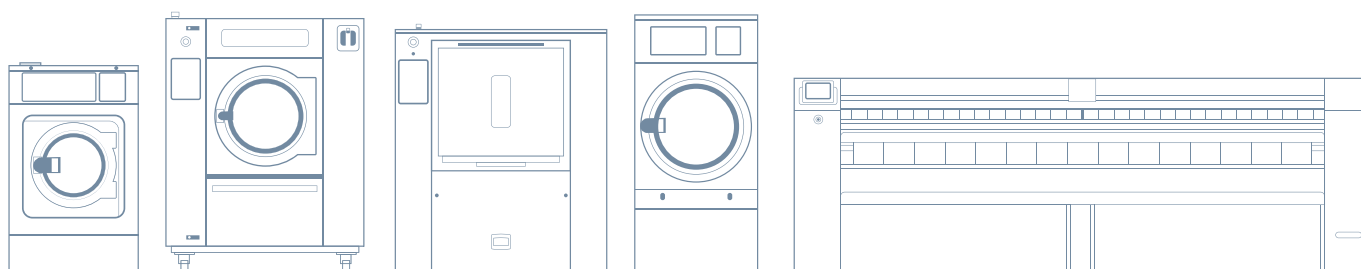
Get detailed reports on your laundry's electricity, water and gas consumption.

## Businesses

Control your activities, production, consumption, reports, etc.

## User management

Configure and control the users who access information on your machines.



# MAIN FEATURES

## DASHBOARD

The control panel allows you to manage your laundry in a practical way

**View** machine status, geographical distribution, cycles executed, changes over time, occupancy rate, programmes run and error volume, among others.

**Create, combine and filter** data and graphs. You can filter by date range, machine type or status.

**Download** chart information in xlsx format.

**Group** charts together to personalise your dynamic dashboard (new).

### What is the new dynamic dashboard?

The new dashboard lets you organise graphs into customised groups.

- ✓ You can label each graph according to your criteria.
- ✓ You can display groups of graphs with the same label.
- ✓ You can create and save groups for different analyses (efficiency, productivity, hygiene, etc.).



### Share graphics on TV

Each graphic has an icon that allows you to send it to a neighbouring screen for use as an information panel.

### Improved occupancy graph

It can be used to monitor the time the machine is in use, displaying daily details over a selected period.

# MAIN FEATURES

## MACHINES

Organise, manage, filter and extract data in real time from your machines with ease.

**Organise and manage** your machines remotely, with the option of labelling them to group them according to your criteria.

**Filter** your machines by type, current status, software version or keywords, among others.

**Get data** statistics, metrics and exploit the full potential of the new telemetry.

### New telemetry

The new telemetry provides more data and displays it in the form of dynamic graphs that are more visual and customisable.

- ✓ Zoom in for a closer look at the data.
- ✓ Hide and display data with a single click.
- ✓ Select by date range.

### Remote desktop

It enables technicians and owners to access and manage machines remotely, troubleshoot problems and adjust settings in real time.

### Group your equipment

Thanks to the colour label system, you can easily sort, filter and display all the machines that share the same label.



# MAIN FEATURES

## PROGRAMMING

Configure and customise the programmes and phases of your machines efficiently to suit your needs.

**Create, modify or delete programmes:** design new programmes from scratch or based on an existing programme, adapting them specifically to your needs.

**Manage configurations remotely:** update programs directly from the DANUBE Online platform via the IoT.

**Export key data:** download and save configurations, programmes and price plans for loading into machines via USB.

### Group and organise your programmes

Create categories for more organized and personalised management of your operations.

### Check every step

Adjust parameters such as temperature, water level, speed, dosage and much more on washing machines and tumble dryers to maximise efficiency and results.



### Advanced automation

Configure programmed pauses, cooling controls and appropriate dosing to optimise processes and ensure consistent results.



# MAIN FEATURES BUSINESSES

All aspects of the laundry can be configured and managed by the owner.

**Create and organise your laundries:** record and group your activities using geolocation and personalised labels to access them quickly and efficiently.

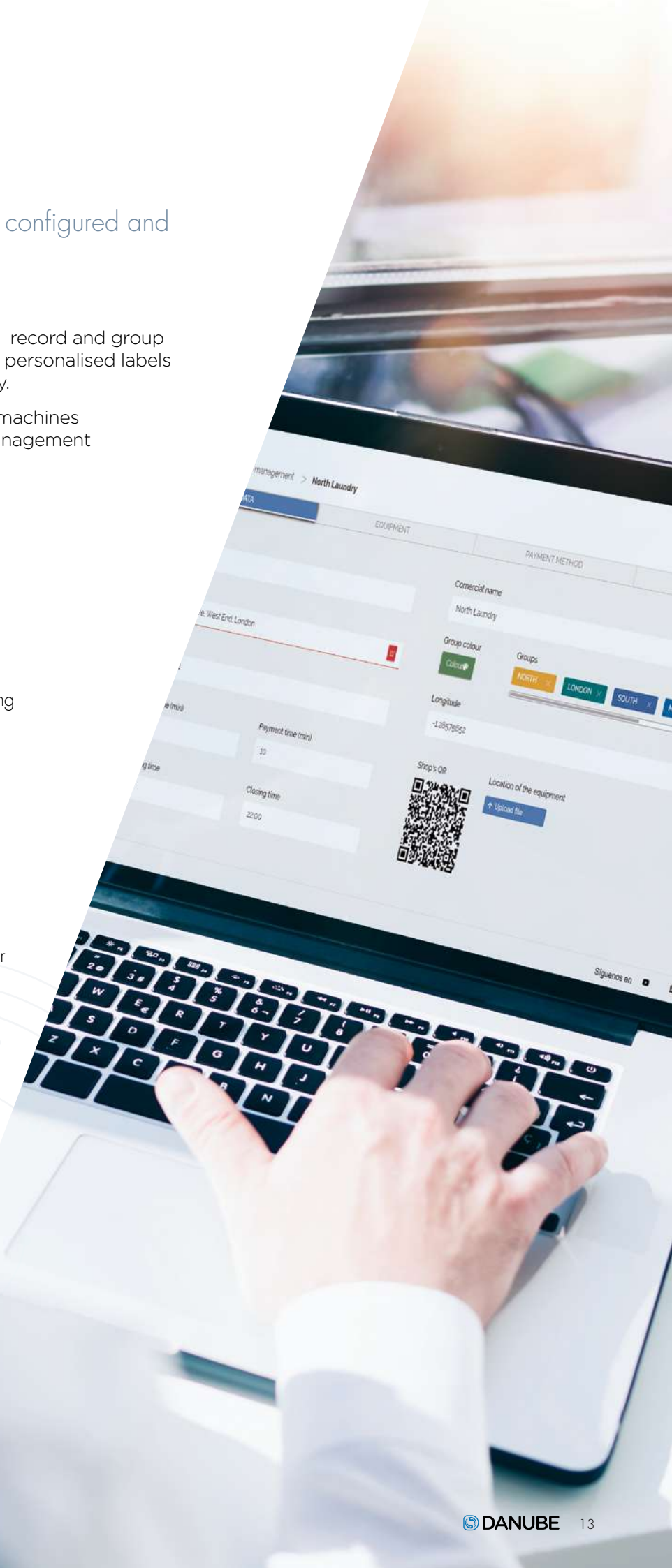
**Link machines to each site:** link the machines in each laundry to centralise their management and supervision.

## Organise your business

Create a clear structure by adding laundries with precise locations, identifying them with coloured labels and grouping them according to criteria such as region, type of activity or size.

## Quick access to advanced controls

Use the telemetry and statistics generated by the IoT to make informed decisions and improve the operational performance of your business.



# MAIN FEATURES

## EFFICIENCY

Monitor and control your laundry's consumption to optimise the use of resources and significantly reduce costs.

**Monitor consumption in real time:** visualise water, electricity and gas consumption using data provided by the LEMS system and IoT metrics.

**Reduce operating costs:** identify inefficiencies and optimise processes to save energy and consumables.

### Detailed and practical reports

Generate consumption reports by machine, site or specific period to identify templates and optimise processes.

### Versatility

Consumption data can be obtained using the LEMS system, whether using the EASY TOUCH 2 microprocessor, the EM electronic programmer or other equipments.

### Custom configuration

Allocate each counter to a specific machine and define the type of supply, pulse value and unit of metric for accurate monitoring.



# MAIN FEATURES

## USER MANAGEMENT

Organise and control access to the DANUBE Online platform for efficient and secure management of your laundry.

**Agents can be created within your organisation. These users only have access to the menus that you, as the owner, have authorised them to access.**

By registering on the **DANUBE Online platform**, you will be able to :

- ✓ Manage and grant access to users in your organisation.
- ✓ Give authorisations to your staff, technical department, agents, etc.
- ✓ Decide who has access and manage authorisations for each of them.
- ✓ Review current invitations. You can view the time remaining on an invitation that has already been sent and resend it if you wish.

### Distributors

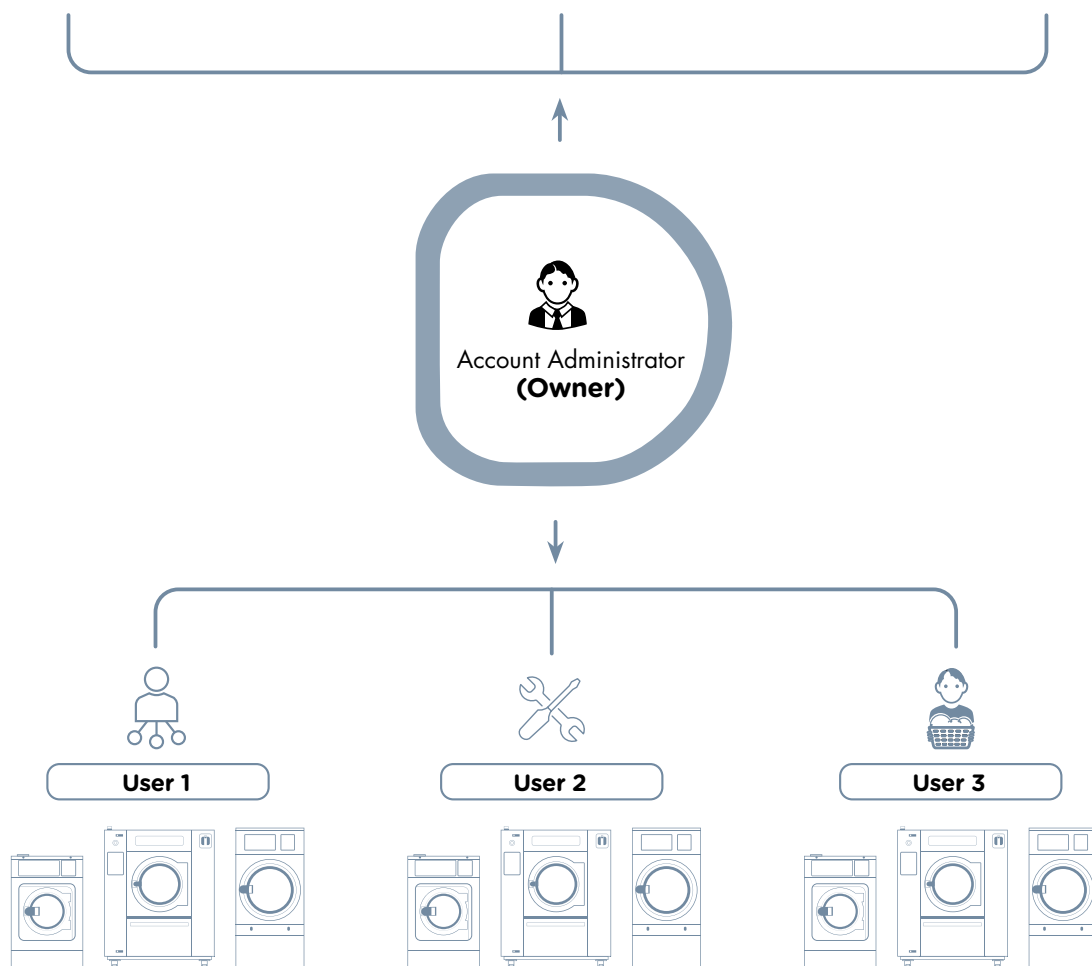
Configure the data your distributors can view, allowing access only to information relevant to their work.

### External agents

Authorise your laundry partners, technicians or other staff to access your machines remotely.

### Secondary accounts

Create personalised profiles for your laundry users.





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