

Mainhive is a flexible next generation IoT Cloud platform. It contains data collection and storage, data visualization, analytics and end-user mobile application. The solution allows to deal efficiently with leakage and non-revenue-water cases, optimize processes by providing single management point for utilities.

## FLEXIBILITY AND SCALABILITY IN ACTION

- Connecting multiple meter types
- Enabling software integrations
- Improving invoicing process
- Integrating and updating existing infrastructure
- Increasing cost-efficiency through SaaS
- Delivering end-user value

## MAINHIVE INTERFACE

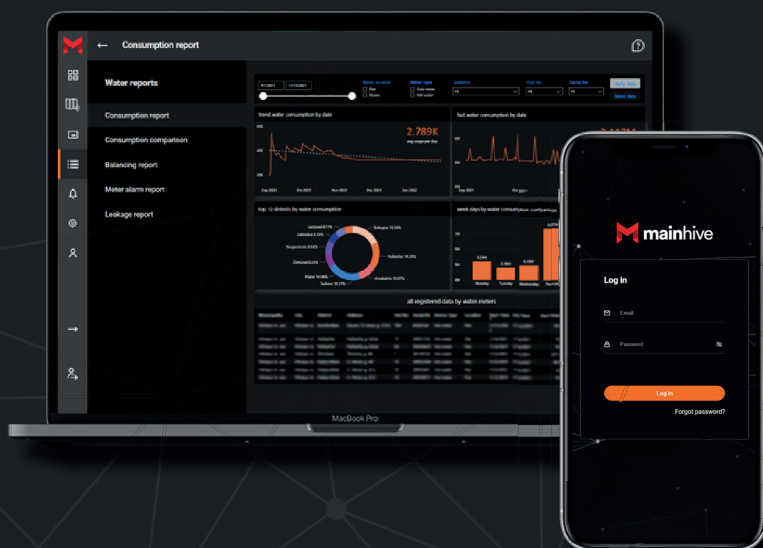


### ■ Mobile app

Use Mainhive on mobile device or tablet. Download the Mainhive app from Google Play or Apple Store.

### ■ End-user app

Application dedicated for end-users with water consumption monitoring and sustainable water usage features.



Cloud platform utilizing smart tech aimed at secure data processing and automatization. We enable our clients to run smart operations that help achieve better business results and guarantee higher service experience. We provide future-proof solutions that meet regulatory standards and open new possibilities for utility companies.

## GREATEST OPERATIONAL EFFICIENCY WITHOUT SACRIFICES —

- **Software at the center** ■ **Expert onboarding and support** ■ **Sustainable**
- **Cost efficiency** ■ **Reliability and security** ■ **Speed and scalability**

## MAINHIVE FEATURES

- **Dashboards** Quick overview of water meter infrastructure with most common information displayed as: active vs total devices, device maintenance info, alerts and consumption.
- **Map view** Quick and easy way to identify problematic objects or devices. The map indicates locations with detected and identified alerts.
- **Billing** Automatic consumption report specifically developed for 3rd-party-application integration in order to generate invoicing for water consumers.
- **Reports** Powerful and flexible reporting architecture:
  - **Consumption report.** Consumption visualization with an ability to view data on daily or hourly basis. Consumption report will predict the future consumption for 20 days. It will show consumption trends for a specific period. The report will compare consumption by weekdays indicating the days where there is highest consumption.
  - **Consumption comparison report.** Possibility to compare consumption between houses or flats. Visual consumption comparison is displayed. For a better view top 10 addresses are visualized. The comparison report will show MoM consumption growth between compared items.
  - **Balancing report.** Balancing report will show consumption comparison between introductory meter and flat meters. The main task for this report is to represent the difference between introductory and flat meters to indicate the possible leakage or non-revenue-water cases.
  - **Meter alarm report.** The report displays alerts triggered by the devices connected to the platform. For an easy alert overview, data visualizations are grouped based on most problematic addresses and by the most problematic meters. More detailed alert information can also be generated.
  - **Leakage report.** Our special algorithm continuously calculates consumption of each meter and is able to detect possible leakages from at least 3 previously received records. For even easier leakage detection overview map coordinates are integrated to show specific area where leakage is detected.
- **Alerts** The 'Alerts' module helps to operate the entire meter infrastructure pro-actively. The module enables possibility to create rules and triggers to be generated automatically via email notifications. Our solution is capable of sending alert notifications based on consumption thresholds and alerts generated by the device. Additionally, it is possible to set specific frequency (months and/or week days) for alert monitoring and reporting.
- **User and role management** The system allows the administrators to manage users on their organizational level and assign different roles to different users with different access rights to platform features.