



GATEWAY

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Technology

The Automated Utility Systems AUS-iot Gateway is the product that provides the link between the AUS-iot Monitor and AUS-iot Services. The AUS-iot Monitor being the device installed in the field and the AUS-iot Service being the WEB presentation of relevant information. The services allow for the effective monitoring, billing and control of the customer meters.

The AUS-iot Gateways listen and collect all the relevant signals transmitted from the AUS-iot Monitors.

Meter readings and event data captured by the AUS-iot Monitor are transmitted via radio signal to the AUS-iot Gateway and then on to the AUS-iot Services.



Technology

Data collection is key to effective utility management. The data collected is used to generate bills, reports, send notifications and thus must be up to date and available. The radio system implemented must meet this requirement and ensure the efficient collection of the data.

The AUS-iot Solution utilises dynamic, real-time configuration of the radios to ensure optimal performance. The solution dynamically adjusts the radio's performance and is not fixed in nature.

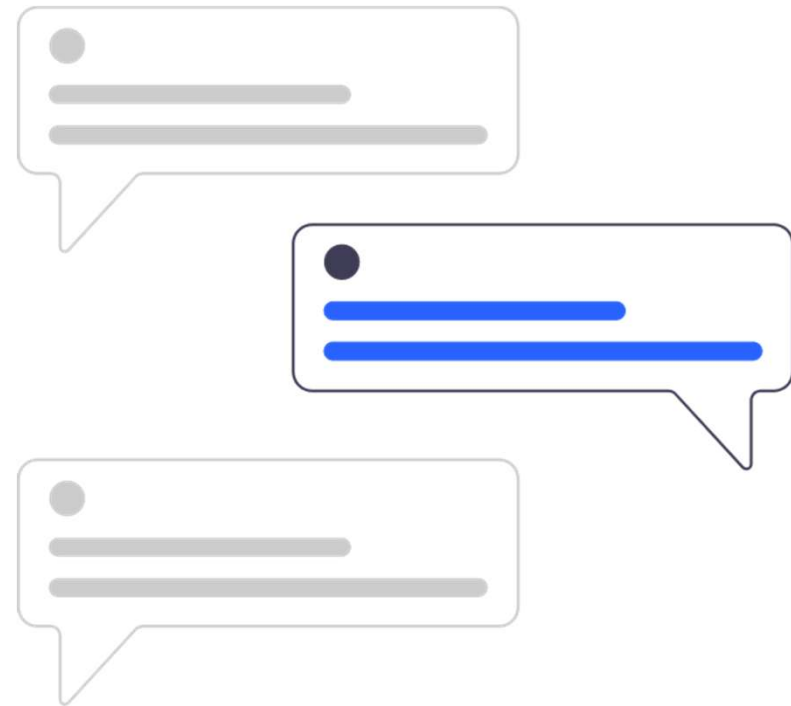
The Automated Utility Systems solution utilises the LoRa® radio protocol. The protocol is suited to dense urban environments and excels in rural terrain.



Notifications

The AUS-iot Services support direct notification via E-Mail to the management and tenants. The notifications include billing alerts, leak alerts, out of profile consumption and excessive usage notifications. Notifications are selectively enabled.

The services also support tenant configurable notifications directly to their mobile phones.





Radio Solution

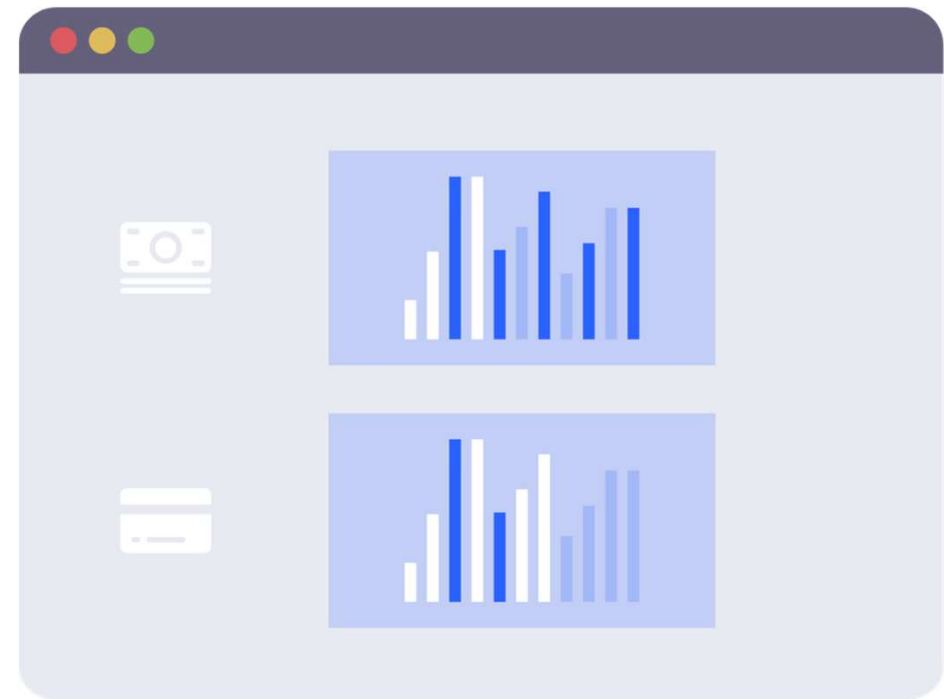
AUS-iot products use a cutting edge and class leading radio solution that is based on the Semtech LoRa® wireless protocol. The protocol is dynamic and energy efficient, thus maximises both performance and product life, thus resulting in a highly cost effective solution.

Data Security

Data security and integrity is ensured through End to End encryption of the transmitted data. The transmissions are conducted under a unique session key. This ensuring that the encryption of the data differs for each End Device with each session.

The same level of security is applied to the backhaul data link from the Gateways to the Software services and servers.

Automated Utility Systems makes use of professional cloud based server, data storage and backup services, thereby ensuring that your data remains secure and accessible from any location worldwide.



Your Needs Addressed

Automated Utility Systems provide a fully-fledged utility management solution that is suited for building management in highrise, office blocks, apartments or individual dwelling. Our solution is equally well suited for use in gated estates, as it is in rural and municipal utility management.

AUS-iot products interface to a large number of standard utility meters and the AUS-iot Services provides the platform for the effective monitoring and control of these utilities.

Management Reporting

A comprehensive suite of management tools is provided, including reports, control functions, database management, data analytics and billing. AUS-iot Services makes it easy to implement an effective revenue management system.

Examples of reports provided are:

- Individual and sitewide daily consumption.
- Top & bottom percentile users.
- Customer details
- Leak / burst / tamper notification.
- Utility supply balance
- Radio reports.
- Data analytics

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