Subtask 5- FI technology database

FI Tech Case #6:
Aidon Oy

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Introducing the Company

Aidon is a new company specialising in energy metering and AMR-systems. At the
moment, we operate in Sweden, Norway and Finland. Although we are a new company,
we have profound experience in the energy markets and remote reading systems. Aidon
already has over 120 man-years of experience in the industry.

The company structure of Aidon is based on the idea of maximal flexibility of the resource
availability by the means of our own competence or that of a partner.

The personnel of the company and the significant industrial investors and sponsors have
enabled the establishment of Aidon in the markets.

Our Idea

The starting point of Aidon is a new, open way of thinking based on industrial standards.
Our new way of thinking makes it possible to more freely combine the various AMR-
technologies of energy companies. This will make the most cost-efficient solution always

available, which allows attaching new devices and services to it. An open way of thinking builds a secure future.

We offer our customers a unique AMR -concept, which is designed to respond to the requirements of the renewed energy markets in the Nordic countries.

Our Operation Environment

Reforming of the Nordic energy markets requires a huge effort for all those involved. Aidon constructs its operations with the help of collaboration and business relations with its customers. Together, with partners leading their own markets, we offer our customers a comprehensive solution to make the whole metering process more efficient.

We believe that the efficiency and the availability of meter readings will impact and change the energy business as greatly as the Internet has renewed e.g. the postal services and banking operations.

Products

Aidon 5500 Series meter

- An open and cost-effective solution that is compatible with all technologies.

The modularity of our meter concept minimizes both technical and economic risks during implementation and extension of systems.

Aidon 5500
- An integrated meter with separate lifespans for metering and communication
- A system module can be implemented at any time
- A plug-in system module for alternative communication technologies
- OTAP (Over The Air Provisioning) upgrade for meter's system module reduces maintenance costs
- Compatible with protocols, enables communication interfaces according to industry standards
- New meters and devices are introduced in the system as drivers, like Windows® printer drivers and printers

Aidon 5530-an open-standard, modular AMR meter

The Aidon 5530 is an open solution that meets energy companies' needs to incorporate different technologies into a single operating system. The AMR meter combines a reliable energy meter, with a data communication bus and system module.

The Aidon 5530 is compatible with most commercially available metering systems. Suppliers may freely choose the system module they want to use, as the data link to the reader is based on open standards.

The Aidon 5530 meter has a modular integrated system module, producing time-stamped register values and offers various services such as load control, etc. It registers power cuts, quality of supply and fault messages and reads the status of external device. The meter's functions can be used in real time (controlled by the energy company's own system) or by an independently-operated integrated timer.

After installation, the Aidon 5530 does not require on-site visits, as metering data is collected through a wireless OTAP (Over the Air Provisioning) via a built-in GRPS link. This also provides a useful method of downloading new programmes and functions.

Changing the communication type of the Aidon 5530 is easy, as only the system module needs changing. Replacing only a part of the meter also supports sustainable development, by reducing the amount of waste.

Unrivalled quality and an extended life-cycle are the crucial design concepts of the Aidon 5530. Simple and quick to install, the Aidon 5530 is fitted in a streamlined casing and has a user-friendly interface.

The Aidon 5530 is the first of a new generation of AMR (Automatic Meter Reading) meters. In the Nordic countries alone, around 14 million meters will be replaced within the next few years.

Aidon Ltd develops and markets equipment, software and services for automatic energy meter reading. The major customers of the company, which operates in Finland, Sweden and Norway, are energy companies. Aidon Ltd, founded in 2004, is owned by corporate management, staff and capital funds.

System Architecture

AMR - three letters that will change the energy industry as the Internet changed banking. Yes. We honestly believe that the efficiency and availability of meter reading will affect and change the energy industry as much as the Internet has changed, for example, banking and postal services. Versatile and customer-oriented services work consistently regardless of the service provider. We have introduced the first energy metering concept that is based on openness. The openness covers the whole system from the highest level to the metering of energy consumption. With the help of our concept, you can choose the system that is most suitable for your business and you do not need to pay for unnecessary functionality.

Our system architecture is designed for a situation where meters from different suppliers operate in different systems. Aidon AMR makes it possible because of a consistent AMR interface for the host system. The interface covers meter profiles, product management and system configuration. The system is fully compatible with meters from different suppliers.

Wherever energy metering is heading, the system architecture of Aidon stays open.