

CASE STUDY

Gardena Smart System

Connecting three garden products including a robot lawnmower to the Internet, enabling app-based monitoring, control and automation. It only took a year from idea to store shelf.



1 Ideation

Before the project, Gardena's customers could schedule and control their robot lawnmower, but only through the lawnmower's own interface. Gardena wanted to allow their customers to schedule and control their lawnmower using an app. An app would also allow different Gardena products to be operated and orchestrated together. The first two products chosen were a humidity sensor and sprinkler system. Gardena had started in-house development of the lawnmower, but came into difficulties with wireless-signal range and creating a scalable system that could expand to other products. Seluxit's existing technology offered a viable solution for both problems.

2 Development

Seluxit was able to help Gardena into the market in a very short timeframe because Seluxit already had a range of finished technology that could solve Gardena's problems. In close cooperation with Gardena, Seluxit developed embedded hardware in the Gardena products which sends to and receives wireless signals from Seluxit's IoT Platform via a home gateway. The Seluxit IoT Platform enables the app as well as forwarding product-usage data to Gardena's ERP.

3 Production

Each of the Gardena products needed to be produced, including sourcing the radio module's bill of materials as well as managing the generation of unique keys in each product to ensure security. Moreover, the products' radio technology needed to be certified and tested during the manufacturing process. All of these topics were handled by Seluxit.

4 Operation

Seluxit manages the operation and maintenance of the Gardena Smart system. Over-the-air updates ensure that any bug fixes are deployed to every device in the field automatically. At peak operation in July 2018, tens of thousands of products generated 1,3 billion events or 9TB of data, all handled by Seluxit.

“ We need to be able to respond to market changes with corresponding technological developments.

To do this with speed we build on expert knowledge and competence of technology partners with solid experience in their fields. As the IoT landscape changes, Seluxit's technological agility is key.

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–Pär Åström
President of the Gardena
Division within the
Husqvarna Group

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