

The City of Kortrijk Takes Control of its 'Smart City'

Case Study
February 2018

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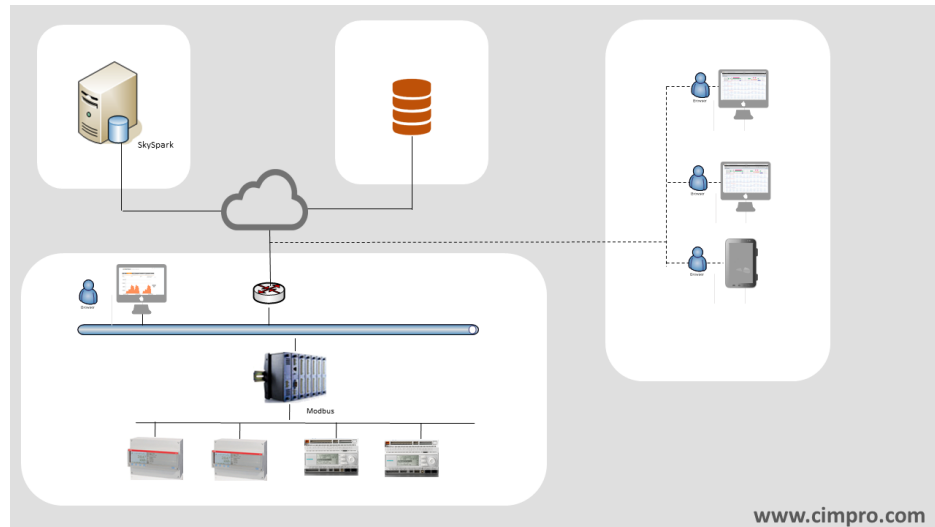
Kortrijk Takes Control of its 'Smart City'

The West Flemish city of Kortrijk (75,000 inhabitants) has undertaken the process to develop into Smart City. The city will digitally manage, among other things, mobility, parking and energy. CimPro, SkyFoundry's VAD for the region, has been commissioned to contribute to smart energy savings at urban locations and artworks, such as fountains. In order to achieve that goal, uniform data and open software platforms are indispensable.



The Smart City project is based on a layered data model. These four layers consist of sensors (1), data collectors (2), an open data portal (3) and web applications (4). The open data portal is owned by the city and can be used by various parties. This way everyone can get started with the available data to, for example, create new mobile or web applications.

System Architecture



Open Standards

The data model is based on market standard (read: uniform) standards and therefore information can easily be exchanged. Thanks to the standardization of Smart City data, Smart City applications can also be used in other cities. Moreover, in this way the city is not dependent on certain suppliers and as such Kortrijk is protected against a so-called 'Vendor Lock-In'. SkySpark was able to easily accommodate the requirement to work with the open data platform and make data available to external applications in standard formats.

Smart Buildings

The project included the installation of sensors in the most important buildings in the city to measure parameters for energy such as electricity, gas and water consumption. This data is collected in data collectors, such as the Smart Energy Connector® of CimPro, and sent to the open data portal and on to SkySpark.

Existing building management systems provide data on temperatures on the various floors and the outside air temperature.



The Role of SkySpark

Monitoring Building Performance

SkySpark is used to improve the building performance through its ability to continuously monitor and analyze the most important energy and climate parameters. This automatic processing of analytic rules provides insight into possible errors, the cause, the time, the duration and the associated consumption costs. It is even possible to predict problems and schedule preventive maintenance. If a boiler uses excessive energy, for example, it may be that a certain part is defective. By monitoring all relevant parameters 'real time' in the 'cloud', maintenance companies can tackle any problems directly.

Leak Detection of Fountains

Not only buildings, but also works of art are connected to the system. In the past, water leaks on city fountains were only discovered upon receipt of the water bill. Now the water consumption of the fountains is able to be monitored and analyzed in real time. When the consumption is higher than expected, maintenance technicians automatically receive a report with the data of the leaky fountain.



CimPro, SkyFoundry's VAD for the Benelux region, is a supplier of building performance systems for smart buildings using IoT technology. These are systems that consist of well-integrated standard products based on industrial standards. An increasing number of suppliers of industrial control systems are conforming to these standards. As a result, more and more products from different manufacturers are interchangeable.

CimPro supplies hardware and software, consultancy, training, technical support and after sales. For the smart building market, the company offers solutions based on plug-and-play dataloggers Smart Energy Connector® and SkySpark. Its customers include De Watergroep, Aquafin and the City of Antwerp.



www.cimpro.com/kortrijk



SkySpark® – Analytics for a World of Smart Device Data

The past decade has seen dramatic advances in automation systems and smart devices. From IP connected systems using a variety of standard protocols, to support for web services and xml data schemas, it is now possible to get the data produced by the wide range of devices found in today's buildings and equipment systems.

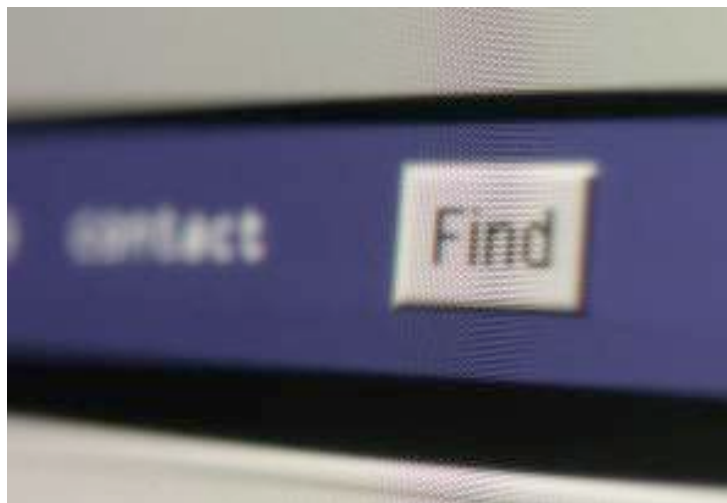
Access to this data opens up new opportunities for the creation of value-added services to help businesses reduce energy consumption and cost and to identify opportunities to enhance operations through improved control, and replacement or repair of capital equipment. Access to the data is just the first step in that journey, however. The new challenge is how to manage and derive value from the exploding amount of data available from these smart and connected devices. SkyFoundry SkySpark directly addresses this challenge.

About SkyFoundry

SkyFoundry's mission is to provide software solutions for the "Internet of Things". Areas of focus include:

- Building automation and facility management
- Energy management, utility data analytics, commissioning and M&V
- Remote device and equipment monitoring
- Asset management

SkyFoundry's software helps customers derive value from their investments in smart systems. Learn more and request a demonstration at www.skyfoundry.com.



The new frontier is to efficiently manage and analyze data to find what matters™.

SkyFoundry

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