



Future Intelligence lights up smart cities with Cumulocity IoT



Customer profile

Future Intelligence Ltd. is a telecom engineering SME based in Greece. Founded in 2009, the company offers an integrated suite of remote management solutions for devices in a smart city environment based on wireless media and telemetry applications. The company focuses on two main lines of business: long- and short-range communications.

New challenges

- Street lighting costs spiraling out of control
- Need to improve public safety and protect environment
- Opportunity to improve municipal operations via the Internet of Things (IoT)

Software AG solution

- Cumulocity IoT, including device/user management, alerts, workflows, real-time data, location management and custom maps

Key benefits

- Better remote management for smart cities and outdoor lighting
- Interconnected sensors and other vertical applications
- Reduced electricity consumption upto 82% when combined with LED
- Fewer service calls, lowering maintenance costs
- Safer communities—no more dark streets

Smart lighting—smart choice

Street lighting is an essential community service, creating a safe environment for pedestrians and helping to prevent car accidents. It's also costly—in fact, city lighting can eat up to 40 percent of a municipality's budget. And, in many cases, lighting is not energy efficient—adding to greenhouse gas concerns and pollution.

Lighting is a major reason municipalities are transforming into smart cities. They've found an ideal way to make that change: Future Intelligence built on Software AG's Cumulocity IoT.

Future Intelligence was founded in 2009 by three visionary engineers fresh out of Brunel University in London. Their idea was to provide complete solutions for smart cities and agriculture, including lighting, traffic, parking, water and irrigation management, and measuring weather conditions. In 2014, the company decided to find a partner to reach its goal of providing dedicated solutions to deliver on these aims. Their partner of choice: Cumulocity IoT.

"We have a very strong formula. We bring the domain expertise, the devices and the applications, and Software AG brings the IoT platform. Such combinations provide top-down or turnkey solutions to smart city stakeholders while allowing unlimited expansion in various directions—vertical applications, different devices, new business models."

— George Bogdos | CTO of Future Intelligence

The Future Intelligence smart lighting application—called FINoT™ Lighting—adds intelligence to lighting systems, whether they are on a road, in a park or on an industrial estate. The app allows municipal or company operators to manage lighting conditions depending upon weather, temperature, movement of people or vehicles, or any combination of these, through a flexible cloud-based interface.

For example, if a highway is brightly lit at night, but there are few cars traveling, the platform can automatically dim the lights for a certain period to save money.

A turnkey solution

The FINoT™ Smart Lighting solution is also suitable for monitoring environmental conditions, facility control, resource management and safety. In recent years, the solution was deployed on road infrastructures, ports, hospitals, campuses and many other places in Greece for smart city management.

With Cumulocity IoT as part of the solution, smart cities have access to:

- **Device management:** For light fixture controllers and related gateways
- **User management:** To give layered permissions to the infrastructure
- **Alerts:** Monitoring conditions to provide warning alerts
- **Workflows:** To set up profiles of the lighting infrastructure, for example, to turn on at sunset and dim at 11 p.m.
- **Location management:** Both sunset and sunrise, for example, are calculated automatically based on geolocation
- **Real-time data:** For constantly monitoring the consumption, status, current, voltage and other data passing to the Internet of Things (IoT) network
- **Custom maps:** For clients based on the zoom level each wants, where they can see different views

George Bogdos, CTO of Future Intelligence, explained: “There are several reasons we chose Cumulocity IoT. First of all, time to market—return on investment. We were building devices to measure and sense data in the field and had to bring those offerings to market quicker.”

He added that Cumulocity IoT also has more flexible business models, which meant better offerings to its end customers.

From Greece to the world

The lighting solution is already in use in urban areas, including Athens, Thessaloniki and Crete. Also, the port of Alexandroupoli in northern Greece has deployed an outdoor lighting management system using FINoT™ for measuring consumption and gaining remote control of the lighting infrastructure. Soon, FINoT™ will be installed in the 2,500 light fixtures of a city in the north of Greece.

Is the world-at-large ready for smart lighting and smart cities?

George Bogdos says yes: “At first, customers could not see the benefit of having a smart solution. Now they want it for everything from smart parking to traffic monitoring.” He says that, although municipalities are ready to get smart, they don’t have the right tools yet.

“They don’t have the solution they need that can deal with all of their vendors, most of which do not have a common approach. They need a platform that can integrate and manage them all.”

That platform to integrate and manage it all is Cumulocity IoT. Together, Future Intelligence and Cumulocity IoT provide a very competitive package to cities that want to become part of the IoT revolution.

“For us at Future Intelligence, it is really exciting to be part of Software AG’s diverse ecosystem,” George Bogdos said.

About Software AG

Software AG offers Freedom as a Service. We reimagine integration, spark business transformation and enable fast innovation on the Internet of Things so you can pioneer differentiating business models. We give you the freedom to connect and integrate any technology—from app to edge. We help you free data from silos so it’s shareable, usable and powerful—enabling you to make the best decisions and unlock entirely new possibilities for growth. Learn more about Software AG and Freedom as a Service at www.SoftwareAG.com

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