CUSTOMER SNAPSHOT

City of Cowansville

Trilliant

DISCOVER THE *Power Of Choice*
for utilities & smart cities

Customer
City of Cowansville

Region
North America

Country
Canada

Overview
Trilliant partners with the City of Cowansville to pioneer Smart City infrastructure

Solutions
Trilliant's next-gen NAN will offer Cowansville the reliability, bandwidth and low latency required for smart lighting, and allows for an easier future implementation of other smart city applications.

Benefits
Street lights will autonomously report to the NAN access point, and will be polled by the head-end system via the Cellular backhaul, making it fully scalable. The city will be able to deploy other smart applications quickly and easily whenever time or budget allows.

Date
May 2021

Cowansville

SUMMARY

The City of Cowansville in south-central Québec wanted to move towards better lighting management and efficiency — at its own pace, without getting rid of sodium lights that were still functional. It was also considering there might be other smart city applications it would want to deploy in the future. Knowing it wanted to take a phased approach, Cowansville partnered with Trilliant to first put a network backbone in place: Trilliant's Industrial Internet of Things (IIoT) Platform and next generation neighbourhood area network (NAN) technology.

Trilliant and Cowansville partnered to determine the best approach for the City, allowing it to prepare for smart lighting with the ability to control existing lights first in phase one; then, once the network is established, Cowansville could deploy LED lights allowing for additional controls or even expand its offerings to include more smart city technology such as environmental sensors that monitor air quality.

Trilliant's next-gen NAN offers Cowansville the reliability, bandwidth and low latency required for smart lighting, and allows for an easier future implementation of other smart city applications. Trilliant's NAN solution is a standards-based, high-bandwidth wireless adaptive mesh technology. Through this solution, street lights autonomously report to the NAN access point, and are polled by the head-end system via the Cellular backhaul, making it fully scalable. Through this foundational technology, the city will be able to deploy other smart applications quickly and easily whenever time or budget allows.

Smart lighting provides the City and its residents with many new benefits, including the ability for staff to manage the lights remotely, with information coming from the cloud not only to the city's maintenance centre, but also directly to staff's devices. The City also has insights into the life and status of all lights. So, if a lightbulb burns out or is defective, the maintenance team is notified; they're also able to proactively monitor the life of each light. This means they can see if a lightbulb might soon burn out, ensuring they can plan and have a replacement bulb on-hand.

CUSTOMER SNAPSHOT

City of Cowansville

Trilliant®

DISCOVER THE *Power Of Choice*
for utilities & smart cities

With the new solution, if a lamppost falls or is damaged due to an accident, weather or other issue, a live alarm sounds to notify the City's team so they can take action. The City also has the ability to remotely control the lights to turn them on or off in the case of an emergency, or in the case of a special event where more lighting is required for citizens' safety.

With the Trilliant communications network in place, Cowansville is also able to easily add other devices to it, such as water meters and wastebin sensors.

There are also be advantages on the sustainability side: The ability to control lighting more effectively in turn means the city is able to save electricity. Additionally, the eventual implementation of LED lighting, when the City deploys it, will allow for the ability to dim lights resulting in even more energy savings, contributing to sustainability efforts.

Cowansville

About Cowansville: The City of Cowansville in south-central Quebec is the largest city in the Brome-Missisquoi region, with more than 15,000 residents.