



# Building Smarter, More Connected Cities



## Executive Summary

The stakes are high for today's cities. To attract new business and a skilled workforce, cities must be able to deliver competitive advantage and community value. In order to achieve both – and satisfy the needs of an increasingly demanding 21st century society – cities worldwide are looking to modernize their infrastructures. Realizing they must act now, cities are turning to continuously connected services to grow economic advantages and strengthen their communities. Community leaders have learned that to build connected cities they require secure, reliable communications and that winning approaches:

- Lead with the network first
- Build on industry-wide, open standards
- Support multiple applications and rich information services

Connected cities encompass a full spectrum of city systems, including transportation, energy, water, health and safety, environmental sustainability and building management. The associated applications and citizen services must seamlessly integrate together – enabling the sharing of information from all network devices – in order to maximize community value and return on investment (ROI).

Recognizing the importance of connected systems, major cities – such as Paris and Copenhagen – have moved rapidly. In an effort to reduce its public lighting energy consumption 30% over the next 10 years, Paris has launched networked smart street lighting initiatives. Copenhagen, frequently called one of the world's most sustainable cities, has invested in smart city infrastructure as part of its goal to become carbon neutral by 2025.

## Growing Competitive Advantage and Minimizing Risk

Challenged on multiple fronts – from demonstrating visible community value to cutting costs – cities operate within a myriad of political, technical and administrative complexities. For example, environmental regulations often mandate demonstrated quantitative results on carbon emission reduction. Community leaders must also show clear financial benefits and cost savings, through increased operating efficiencies in high-impact areas. Forward-thinking cities will meet these challenges and fund initiatives that demonstrate execution capability, community value and budget reduction while extending to address a range of evolving application and service demands.

## How the DTL® DSN Solution Builds Smart City Value

An open, standards-based infrastructure gives cities the best foundation to meet these challenges. Ensuring interoperability across a broad diversity of connected, intelligent smart city devices and applications, standards increase the choices and options available to cities.

The DTL DSN networked photocontrol, an Itron® ready network solution, combines the reliability of the DLL Elite photocontrol, designed for a 20-year operating life, with the performance of the Itron network platform (formerly Silver Spring Networks) for unparalleled functionality and adaptive control of street lighting systems. With the DTL DSN solution, you can leverage Itron's proven multi-application platform to deliver cost-effective connectivity to a variety of smart city applications and critical infrastructure solutions through:



- **Application flexibility** – to enable broad adoption of high-value smart city applications and services
- **Proven scalability** – to rapidly deliver demanding, production-scale operations with tens of millions of devices
- **Comprehensive security** – to help ensure trust and safety with multi-layer protection and continuous security monitoring
- **Open standards** – to increase choice and control across a thriving application and device ecosystem
- **Business value** – to accelerate ROI, transfer risk and minimize up-front costs with NaaS offerings

## Delivering Community and Economic Results

Meeting the above criteria, community leaders can best achieve the full social and economic benefits of connected cities. Starting with smart city applications that deliver attractive time to value – such as networked LED street lights – cities can produce results quickly, reducing energy costs and building public confidence in their programs. Cities from New York to Los Angeles are already deploying longer-life and energy-efficient LEDs and gaining environmental, operational and economic savings. Networked LEDs can provide energy efficiency and operational savings, help reduce a city's carbon footprint and improve illumination to help enhance public safety through reduced crime and accidents.

## Your Smart Street Light Partners

### About Acuity Brands®

Acuity Brands, Inc. is the North American market leader and one of the world's leading providers of lighting and building management solutions. With fiscal year 2017 net sales of over \$3.5 billion, Acuity Brands currently employs over 12,000 associates and is headquartered in Atlanta, Georgia, with operations throughout North America and in Europe and Asia.

Acuity's innovative lighting solutions for indoor and outdoor applications can seamlessly integrate with powerful digital controls and daylighting to create greater energy efficiencies and a higher quality of light.

### About Itron Networked Solutions

Itron is a world-leading technology and services company dedicated to the resourceful use of energy and water. Itron provides comprehensive solutions that measure, manage and analyze energy and water. Its broad product portfolio includes electricity, gas, water and thermal energy measurement devices and control technology; communications systems; software; as well as managed and consulting services.

With thousands of employees supporting more than 8,000 customers in over 100 countries, Itron applies knowledge and technology to better manage energy and water resources.