

The Itron logo is located in the top left corner. It consists of the word "Itron" in a white, sans-serif font, with a small yellow lightning bolt icon above the letter 'o'. The logo is set against a red rectangular background.

Itron

Network-as-a-Service for Streetlights

Solution Overview



NETWORK-AS-A-SERVICE: THE BASICS

The network controller is the only hardware the operator must purchase. With this service, Itron provides:

- » **Network:** Itron brings the network to your smart city devices, enabling real-time communication and control through our Network-as-a-Service (NaaS) offering
- » **Software:** Simple web-based access to the market leading smart cities management software, SLV, driving operational efficiencies and energy savings
- » **Peace of mind:** With 24x7x365 monitoring and management, the Network-as-a-Service offering includes performance guarantees while removing the IT burden

Improve Outdoor Lighting Operations with Centralized Control

With the adoption of networked controls, the design, deployment and management of outdoor lighting networks has become increasingly complex. Many lighting operators desire the benefits of greater energy efficiency, lower operational costs and the ability to add a range of smart city applications, but lack the in-house capabilities, resources and time to build these systems on their own. Itron has simplified lighting control projects by offering its market-leading network management solution and SLV Central Management Software as a managed service. In this model, lighting operators pay a simple per-device, per-year fee for connectivity and control, all backed by industry-leading performance guarantees.

Managed Solutions Deliver Proven Smart City Value

The Itron managed service model enables lighting operators of any scale from cities, municipalities and utilities to gain the benefits of centralized monitoring, control and real-time alerts for their smart city applications without having to worry about designing, building or maintaining a meshing communication network. Through the managed service solution, Itron monitors and operates the in-field communications network, the cellular backhaul network and the cloud-based SLV city management platform. This allows the lighting operator to focus on managing and maintaining the streetlight infrastructure.

By leveraging Itron's experience in deploying and maintaining more than 190M devices globally, Itron's managed service delivers:

- » The fastest deployment of a centrally managed lighting system
- » Full asset management, tracking nearly every aspect of the luminaire and pole
- » Continuous access to the latest features via firmware and software updates
- » Proven communication backed by Service Level Agreements and 24x7 monitoring from Itron's Network Operations Centers
- » Proven business benefits without requiring specialized networking knowledge
- » Extensibility into other smart city applications





Networked Controller Choice

Unlike single-function, proprietary lighting control systems, Itron offers a choice of controller products from multiple partners. These are plug-in-play replacements for legacy non-communicating photocells using the standard NEMA socket; they may also be mounted inside the luminaire. Lighting operators can also select their network controller based on form factor, price or feature set. Operators can manage multiple brands or controller models from the same control software because all controllers have been tested and certified with the SLV management system.

World-Class Centralized Control And Connectivity At Your Fingertips

With a secure login to SLV, lighting operators securely manage lighting assets through an HTML browser. Fully web-enabled means that there are no end-system applications to deploy, so the system can be managed through any device that has a modern HTML browser, including tablets and smart phones.

Not only does SLV provide a full suite of applications for management, monitoring and control, it also has a robust set of APIs (application programming interfaces) that connect SLV to existing GIS or work order management systems. Operators have the flexibility to develop custom applications on top of the SLV management platform.

Smart City Growth And Scalability

Smart street light networks have become the entry point for a smart city network. Itron's communication and management platform is engineered to support a range of devices. To that end, it is built on open standards with stringent security protocols to ensure interoperability, security and reliability. Itron has a proven track record of managing large-scale, ubiquitous coverage, outdoor networks that support multiple applications, including Intelligent Traffic System (ITS) devices, SCADA telemetry, electric/gas/water sensors and cameras.

World-Leading End-to-End Control System

Itron is the world leader in multi-application, standards-based outdoor networks for critical infrastructure. With more than 190 million devices deployed globally and more than a decade of experience building networks in some of the most demanding locations, Itron offers proven solutions and the expertise necessary to deliver smart city networks now and into the future. Our city management platform operates in more than 500 cities worldwide, demonstrating proven performance on a global scale. From monitoring city assets such as water, gas and electric to providing communications for intelligent stoplights and traffic controls, Itron offers comprehensive solutions for the modern, connected city.

OPERATOR ENVIRONMENT:

- » Secure web connection
- » Unified management experience
- » Access to data warehouse
- » Integrate third party applications

CLOUD SERVICE ENVIRONMENT

Software-as-a-Service

- » Hosted SLV central management platform and data warehouse
- » Full security management
- » Seamless upgrades
- » Annual fee per device

Network-as-a-Service

- » Network design, configuration and management
- » SLA-backed performance guarantees
- » Device firmware upgrades
- » Multi-layered security
- » Annual fee per device

MULTI-APPLICATION SUPPORT

- » Power additional smart cities apps leveraging a common communications platform and back-office infrastructure
- » Securely connect any device to the Itron network
- » Enable flexibility and choice with a diverse partner ecosystem and developer program

OPERATOR ENVIRONMENT



CLOUD SERVICE ENVIRONMENT

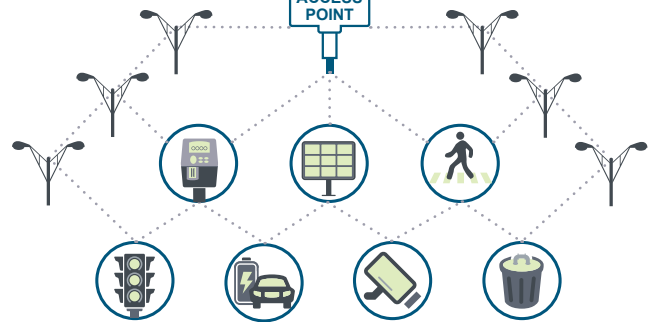
DATA PLATFORM

CONTROL PLATFORM

NETWORK PLATFORM

WAN

ACCESS POINT



MULTI-APPLICATION SUPPORT



Join us in creating a more **resourceful world**.
To learn more visit **itron.com**

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