

Xicato Professional Smart Lighting Services

The Smart Lighting Revolution

The same social needs for energy efficiency and environmental health that drove the LED revolution are now driving a revolution in lighting controls. Smart lighting can deliver additional energy savings and can provide a healthier, more productive lit environment, while creating a more interesting experience for occupants and visitors.

In particular, wireless Bluetooth-based smart lighting enables an unprecedented level of control granularity, flexibility, automation, remote monitoring and diagnostics, while dramatically reducing installation costs. Bluetooth beacons can also enable location-aware information, wayfinding and asset tracking services. Bluetooth mesh networked lighting provides a ubiquitous, powered infrastructure for building services of all kinds, creating an Internet of Things for services we can now only imagine.

Furthermore, globally standardized protocols, open interfaces and APIs guarantee interoperability between lighting, controls, and building management systems. The days of being locked into one manufacturer's system are over.

control and integration. This service is carried out by Xicato's own global engineering team, or under their guidance by one of a growing list of accredited system integrators.

Each certified system integrator has had years of national and sometimes international experience in the lighting controls arena and has undergone specific training with Xicato, including the supervised commissioning of at least two sites. Furthermore, they are committed to ongoing training on new products and product upgrades, new standards and new use cases.



XICATO®  **GalaXi™**



Guaranteeing Success

Xicato GalaXi™ is a broad and growing portfolio of smart lighting products, including light sources, drivers, sensors, gateways and switches, all with integrated Bluetooth mesh control. While Xicato has made the design and integration of lighting control easier than ever, end users often ask who can take responsibility for planning, installation, commissioning and ongoing support?

Xicato is here to help, offering a service package to ensure the successful implementation of lighting

The Xicato Smart Lighting Service Package

The Xicato Service Package includes the following services:

1. Controls planning
2. On-site provisioning
3. Configuration
4. Verification

1. Controls Planning

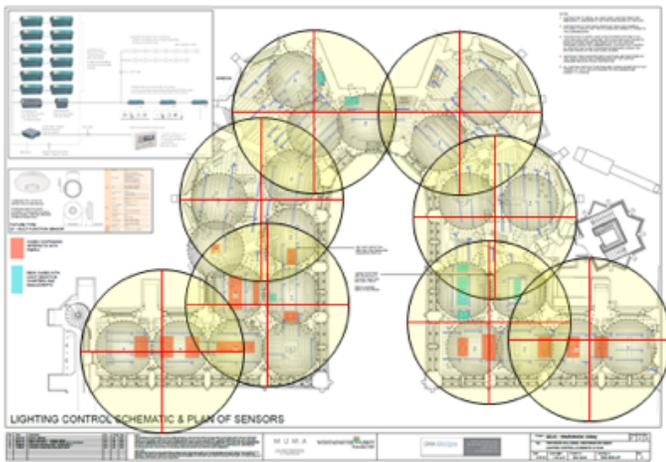
The larger or more complex a site, the more important is advanced planning to hold down costs while meeting the needs of building owners, managers and occupants. In this phase, Xicato will review the client's proposed controls plan, offer suggestions, and help with implementation planning.

Specific actions include:

- Study the site itself, with an eye to potential networking challenges, location of sensors, switches, gateways and relay nodes. In some cases, this may involve conducting a mesh networking survey using specialized tools.
- Consult on the client's controls plan and adjust if needed.

Plan will include, as needed:

- Node location: mapping of accessories like switches, sensors and gateways
- Network provisioning, including secure network names, passwords, and membership
- Node provisioning: naming and numbering of lights, sensors, switches, and other nodes
- Group definition, including group names, numbers, and membership
- Scene definition, including scene names, numbers, membership, and member behavior
- Sensor responses, including lighting node subscription and response behavior
- Schedule creation and node response behavior
- Test and verification planning



2. Installation and Provisioning

Smart lighting and accessories will typically be installed by a licensed electrician. Once installed, Xicato or its certified agent will perform onsite provisioning according to the plan, including:

- Network provisioning, including secure network names, passwords, and membership
- Node provisioning: naming and numbering of lights, sensors, switches, and other nodes

3. Configuration

Configuration is the act of programming the nodes with groups, scenes and schedules, associating them with switches and sensors, designating which nodes (if any) are mesh relay nodes, and programming their control logic.

It may also involve setting up gateways and installing the drivers necessary for building management

systems (BMS), third party central lighting control systems or cloud services to communicate with gateways.



4. Verification

Finally, the Xicato integrator will undertake verification of the functionality and security of the system and obtain sign-off from the client that everything is working as required. It would not be unusual for small changes to occur at this point: the difference between how the system was imagined in advance to work and how it should really work.

- Verify device IDs and names
- Verify all the devices in each group respond properly to group commands
- Verify all the devices in each scene respond properly to scene recalls
- Verify that all devices respond properly to occupancy, lux, and other sensors and switches.
- Check security
- Check response to commands issued through gateway, if configured

About Xicato

Xicato designs and develops light sources and electronics that enable architects, designers and building managers to create beautiful, smart spaces in which people love to live and work. With thousands of installations around the globe, Xicato is a leading supplier of high quality lighting solutions, and is defining the future of intelligent light sources by integrating electronics, software and connectivity. Founded in 2007 and headquartered in Silicon Valley, Xicato has offices in China, Europe and the US.

For More Information

- info@xicato.com
- www.xicato.com