The Enlighted Intelligent Lighting Control System™
energy savings + ease of installation + occupant comfort
The Enlighted Intelligent Lighting Control System is the simplest and most advanced way of managing your building’s lighting infrastructure. No other lighting system provides a next generation approach to improving building energy performance. Our Enlighted Smart Sensors™ provide unparalleled savings and the Enlighted Energy Manager™ provides the monitoring and maintenance of the system. Owners of commercial office spaces, warehouses and garages benefit from substantial energy savings while occupants enjoy unprecedented control and comfort.

On the front end, our Enlighted Smart Sensors couple easy and inexpensive installation with unparalleled energy savings.

### OCCUPANCY-BASED ENERGY SAVINGS

The true success of an occupancy sensor is measured by its accurate detection. Most traditional occupancy control strategies leave all the lights on in a zone, with even one person present; thus yielding less than 1% in energy savings. Enlighted’s approach ensures high energy savings because the lights truly correlate to vacancy and occupancy.

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**SMART**

- Network independent sensors
- Pinpoint control
- Interoperable with all existing lighting types including LED
- Extensible to other energy services and systems

**SIMPLE**

- Zero lighting design required
- Simple to install—approximately 20 minutes per sensor
- Minimal tenant disruption
- Rapid commissioning

**SAVINGS**

- 50-70% lighting energy savings
- Cost effective installation
- Low maintenance costs
- Lower cost per unit
- Reduction in carbon footprint
Monitor + Manage

On the back end, the Enlighted Gateway™ and Enlighted Energy Manager (EEM) provide continuous monitoring and management of your lighting systems. Occupancy, light and temperature data from the sensors is collected and analyzed in real time.

**ROI INFORMATION**
- The EEM tracks and conveys energy consumption 24/7
- Operators gain precise information on ROI from energy savings

**CONFIGURATION AND TUNING**
- Profiles in the EEM manage the space according to users’ preferences and tasks
- As changes occur, the profiles can be easily updated

**INTERFACE TO BUILDING MANAGEMENT SYSTEMS**
- The EEM interface enables the system to communicate with a BMS
- Occupancy data from the Enlighted System provides additional savings through interface with HVAC and demand response systems
The Enlighted Intelligent Lighting Control System comprises three components: the Enlighted Smart Sensor, the Enlighted Gateway and the Enlighted Energy Manager.

THE ENLIGHTED SMART SENSOR FAMILY

Enlighted Smart Sensors are deployed at every fixture throughout a building, working with all types of lamps – fluorescent, LED and others. They sense occupancy, temperature and ambient light and manage the lights to vary the illumination levels. Because the sensors work autonomously, they are fault tolerant. Each sensor operates irrespective of network outages or other events affecting the overall system. The data collected by each sensor is passed to the Enlighted Energy Manager that tracks and analyzes the energy savings and provides input for other building energy efficiency systems, such as demand response and HVAC.

Installing the sensors is a quick and easy process requiring less than 20 minutes per sensor. No specialized skills are required on the part of the installers.
THE ENLIGHTED GATEWAY connects Enlighted Smart Sensors and the Enlighted Energy Manager. The Enlighted Gateway communicates with Enlighted Smart Sensors via a wireless network. One or more Enlighted Gateways may be deployed on each floor to relay information between the sensors and the Enlighted Energy Manager appliance. The system architecture enables scaling to very large lighting control applications. The Enlighted Gateway uses industry standard AES encryption to ensure secure connections.

THE ENLIGHTED ENERGY MANAGER is the user interface to the Enlighted Intelligent Lighting Control System. It is a server class appliance that discovers, commissions, and manages Enlighted Smart Sensors. It monitors and reports energy usage. The Enlighted Energy Manager also provides the interface to third party building automation and demand response systems. Industry standard security with encryption safeguard the integrity of the system. Automatic backups prevent data loss and restore fixtures to operational modes.

IMPLEMENTATION OF THE ENLIGHTED SYSTEM

Enlighted Smart Sensors operate autonomously from the network creating a fault tolerant environment. They are linked through a wireless network to the Enlighted Gateways which are connected through ethernet to the Enlighted Energy Manager. Typically, every work space has its own sensor, each floor may have one or several gateways and there is a single energy manager per building.
Quick, Simple Installation

The Enlighted Intelligent Lighting Control System is the easiest and most cost effective lighting control system to install. We use software to do the work that hardware and manual processes perform in conventional systems. There is no design or pre-engineering. Installation technicians do not require special certification. Because no new wiring is involved, the system does not need to be designed around facility constraints.

<table>
<thead>
<tr>
<th>PER FIXTURE</th>
<th>PER BUILDING</th>
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<tbody>
<tr>
<td>15 MINS</td>
<td>90 MINS</td>
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<tr>
<td>Powerpack/control unit installation</td>
<td>Enlighted Gateway installation and connection to Enlighted Energy Manager (EEM)</td>
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<tr>
<td>5 MINS</td>
<td>30 MINS</td>
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<tr>
<td>Enlighted Smart Sensor installation</td>
<td>EEM set up</td>
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<tr>
<td>1 MINS</td>
<td>5 MINS</td>
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<tr>
<td>Sensor discovery and commissioning</td>
<td>EEM profile management</td>
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We’ve achieved 70% savings. I can’t say enough about how cooperative and collaborative Enlighted has been.

Jeff Roman, VP of Information Services, Interface Global

PROJECT HIGHLIGHTS: INTERFACE GLOBAL

- Project Size: 35,000 sq. ft.
- Fixture Count: 150
- Installation: Staff trained in minutes
- Completion Date: April 2011
- Energy Savings: 70%
- Payback Period: 18 months