Lighting Management Software
Release 4.13

Overview
Fifth Light’s Lighting Management Software (LMS) allows facility managers to design, configure and maintain their facility’s lighting system. The LMS governs all the devices connected to the Fifth light lighting control panels and the control strategies for each of these devices. Using this intuitive, web-based software application, facility managers are able to easily analyze the building’s lighting system usage and quickly update the system to improve the energy consumption.

Features

- **Control lights on an individual or group basis** – Allows tenants to personalize the light levels for each light fixture or groups of fixtures based on their preference. This can be done from various devices such as any computing device with one of the supported web browsers, Cisco IP telephones and iPhones®.

- **Repurpose spaces without any physical rewiring** – Eliminates the costs associated with lighting control changes post installation.

- **Web-based user interface** – Eliminates the need to install any software on computing devices. This enables users to securely access the lighting management software from any device with a valid web browser.

- **A rich portfolio of standard-based and proprietary interfaces** – Allows system integrators to easily integrate the lighting control system with building automation systems, shade control systems (Mechosystems®, Somfy®, Embedia®), A/V systems (via contact closure or XML interface), Cisco® IP telephone systems, generator switch gears and any other third party systems via BACnet® and web services.

- **Built-in energy reports focused on the entire building all the way down to the individual fixture and user** – Allows users to quickly evaluate the lighting system’s performance and identify any lighting-related inefficiencies.

- **Up to 500 simultaneous users** – Allow users to easily change the lighting levels and mood within a space via a simple press of a button on a switch, iPhone® app or touchscreen. Access to the various control features are regulated on a user profile basis.

- **Up to 5 simultaneous facility managers** – Allows a single lighting control system to be shared by multiple tenants. Each tenant able to customize the lights within their area without having to rely on a facility manager.

- **Import AutoCAD (DXF) files with smart fixture recognition** – Reduce non-value added engineering by leveraging the AutoCAD drawings of each floor and the content available on these drawings such as device location and device type.

- **BACnet Integration** – External BTL certified BACnet® gateway enables integration between the Fifth Light system and any BACnet® compatible building automation system (BAS)

- **Security** – End-to-end 256 bit encryption and SSL support offer enhanced security and compliance with stricter corporate IT security policies.
As a security system, the LMS authenticates the concurrent users associated with their lighting system. It also allows users to analyze the energy consumption resulting in a low cost-of-ownership.

The LMS assumes the roles of the system manager, system gateway and security manager.

As a system manager, the LMS governs the lighting system and all devices connected to the system. This includes DALI, low voltage and ethernet based devices, i.e. 0-10V ballasts/drivers, DALI Field Relays, DALI digital to analog converters, DALI dimming modules, DALI and 0-10V occupancy and daylight sensors, DALI and 0-10V wallstations, Fifth Light Touch Screens and other low voltage devices. It also allows users to analyze the energy consumption associated with their lighting system.

As a system gateway, the LMS handles the communication between the Fifth Light System and third-party systems. It offers a large list of standard-based and proprietary interfaces enabling communication with Building Automation Systems, A/V systems, Shade control systems, Cisco IP telephony systems and many other third-party systems. These interfaces include: BACnet, XML (web services), MechoNet RS-232 protocol, Somfy RS-485 protocol.

As a security system, the LMS authenticates the concurrent users using user login to the system and ensures that they can only access the areas and devices allocated to these users.

Specifications

<table>
<thead>
<tr>
<th>Supported Web Browsers</th>
<th>Internet Explorer 11+</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Google® Chrome 40+</td>
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<tr>
<td></td>
<td>Safari 8+</td>
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<thead>
<tr>
<th>Central Manager/Local Controller</th>
<th>Operating System: CentOS 6.5</th>
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<tbody>
<tr>
<td></td>
<td>Java Version: Java JDK 7 u 67</td>
</tr>
<tr>
<td></td>
<td>Application Server (only on Central Manager or standalone local controller): JBoss 6.0</td>
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<td></td>
<td>Screen Resolution: 1024 x 768 or higher</td>
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| Standard Warranty | 1 Year |

Lighting Management Software

The LMS allows users to design, configure, commission and manage their facility lighting control system through an intuitive web-based user interface that can be securely accessed from any computing device connected to the lighting control network. A centralized management approach significantly simplifies day-to-day operations resulting in a low cost-of-ownership.

Using a toolbar, users can access the various programming and management modules. The toolbar is comprised of the following sections: the toolbar, the filter panel and the floor plan/tabular panel:

1. **Personal Control** – Individuals can control the light levels in their workspace from their computer to suit their personal preferences and create the ultimate work environment.
2. **Scheduling** – Using a calendar, users can schedule switching or dimming of lights in areas where occupancy control is not appropriate. Users can create multiple schedules that can be employed for areas as small as a room or even an individual light fixture.
3. **Occupancy Detection** – The user can define how lights and plug loads respond to motion or lack of motion detection by occupancy sensors. The system allows users to program lights so that they dim gradually upon vacancy detection or blink before shutting off as well as cutting power to non-critical plug loads.
4. **Daylight Harvesting** – The user can associate lights with daylight sensors in order to automatically adapt to ambient natural sunlight to maintain a cost light level at desk height and save energy.
5. **Workpoints** – Users can group lighting devices into workpoints for ease of use. A workpoint is a set of light units with an activation level for each unit.
6. **Wall Mounted Controls** – The user can define how lights respond to a keypad or a switch, i.e. the light level or scene, toggle action, hold action and many other options.
7. **Monitoring** – Facility managers can check, troubleshoot and diagnose the operational status of every light fixtures of the lighting system. The monitoring utility can be set to run all the time so that a problem is detected as soon as it happens.
8. **Reporting** – Facility Managers and tenants can view the calculated measured energy, power consumption and savings per device, area, floor, facility or campus. The reports can be exported as pdf and excel files. (See Fig. 2)
9. **Tenant Setup** – The facility managers can setup different tenants per system and give tenants control over their section of the building or floor.
10. **User Setup** – User can create user accounts and assign access privileges based on role and devices.
11. **Commissioning** – User can address a replaced device, upload new programming changes to the local controllers and restart them, if required.
12. **System Setup** – Facility Managers can create fixture types, peripherals, end device and control devices and configure them.

Web Based User Interface

The LMS web-based user interface allows users to access the system from any computing devices with access to the Fifth Light System. The user interface has been optimized to allow facility managers to easily add devices, program the system and monitor the system’s performance.

To simplify the browsing of hundreds of data points provided by the system, the user interface has been carefully divided into three sections: the toolbar, the filter panel and the floor plan/tabular panel:

The **Toolbar** is how users navigate between the key system modules. The **Filter Panel and Floor Plan** is how users quickly select multiple devices on the system. Each module has a similar layout with the Floor Plan and Filter Panel being common throughout most of the program. Using the Floor plan, users can zoom into the floor plan to focus on a specific sub-area or device within the facility. Users can hover above a device to get various information with regards to the device (device type, schedule, occupancy, etc.) (See Fig 1).

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Figure 1.

![Lighting Management Software](image1)

Figure 2.

![Lighting Management Software](image2)
## Ordering

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLT-LMS413</td>
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