PHILIPS
dynalite

Networked Controls

Envision Manager software

Increase lighting performance and reduce operating costs

Introduction to the **Dynalite System**

For many organizations, the energy used by lighting represents a high proportion of the total energy used within their facilities. By using advanced lighting control technologies, the efficiency of lighting systems can be optimized to ensure the right amount of light is provided when and where it is needed. Not only does this approach minimize unnecessary energy use, but it can also reduce costs and improve productivity.

The Philips Dynalite approach hinges on the belief that no two lighting systems are the same and that every lighting installation should be tailored to best match the customers needs. Lighting systems can be set up for automatic operation – through the use of clocks and sensors – or for manual operation, or a combination of the two. The Dynalite platform is designed to be easily configured and yet powerful enough for any customized task. When properly set up and configured, the lighting system will respond to the needs of the occupants seamlessly; optimizing lighting for the tasks at hand while ensuring energy is not wasted in unoccupied areas.

Envision Manager offers a number of flexible control and monitoring capabilities for your Dynalite system which:

- facilitates two-way communication and control with each lighting system component, including sensors, user interfaces and DALI lighting fixtures.
- enables monitoring of all system components, with real-time failure alerts and reporting of maintenance issues and energy usage.
- allows entire floors, buildings or campuses to be controlled remotely, through any authorized web browser-enabled devices, providing an ideal solution for offices, hotels, arenas, stadia, museums, shopping malls, leisure centers, schools, university applications and more.

Benefits
of a lighting control system

Technical Specifiers

- We offer a complete lighting system, comprising luminaires, lamps and control system. In additional to this, the Philips team are there to assist with system design and commissioning should you need them.
- As Philips luminaires and control systems have been designed to work together, industry problems such as 'LED flicker' are avoided.
- The partnership of energy-efficient LED luminaires and the Philips Dynalite control system supports corporate social responsibility initiatives through the reduced environmental impact of materials and energy use.
- The system is capable of controlling any light source to ensure both the customers energy and aesthetic/functional lighting requirements are supported in the best possible manner.

Facility Managers

- The design of a DALI system allows the easy re-grouping of lighting fixtures should internal partition walls be moved. This delivers flexibility and cost savings to meet future requirements without the need for any re-wiring.
- The system provides alerts for lamp and component failure, as well as information that calculates when lamps are approaching the end of their lives. This allows maintenance activities to be optimized, lowering maintenance costs and minimizing any disruption.
- 'Report Manager' allows system reports to be generated on hardware status, energy consumption and DALI emergency lighting performance.
- The 'DALI Emergency Test' feature enables DALI emergency lighting systems to be efficiently tested via the software, automating this often mandatory routine operation.

End-users

- Providing end-user lighting control ensures that light levels are adjustable for task-specific operations, increasing productivity and user satisfaction.
- Web-based and mobile tools allow users to control lighting remotely.
- The 'Schedule Manager' ensures that regular lighting changes occur automatically.

Features of the
Dynalite system

Advanced time scheduling

'Schedule Manager' enables pre-defined system state changes – such as lights on/off or sensor enable/disable, as well as dimming levels – to occur automatically at set times or at a variable time relative to sunrise/sunset.

Occupancy detection

Multipurpose sensors include occupancy detection. This can be set to turn off or dim down an area once it has been unoccupied for a specified length of time, contributing to the energy efficiency and operational performance of a building.

Lamp Maintenance

The 'Lamp Maintenance' function identifies lamps approaching the end of their operational life, allowing these to be replaced to maintain the performance of the system.

Daylight harvesting

Multipurpose sensors also incorporate light-level detection. This can be used to measure the incoming natural light levels and adjust lights up/down to meet predetermined lux levels for different areas. Daylight harvesting strategies have the potential to deliver huge energy savings for a building.

Live Monitoring

Envision Dashboard presents energy consumption data at a glance so that crucial system status details can be understood easily. An additional 'Alerts Overview' provides details about any potential issues on the system. This helps the building/facilities manager prioritize and address maintenance activities – both planned and unplanned.

Zoning

Lights are grouped into areas so that they can be controlled together. Lighting areas can easily be modified through Envision software. DALI fixtures can be easily re-grouped to support changes in building layouts without the need for any manual rewiring.

Reporting

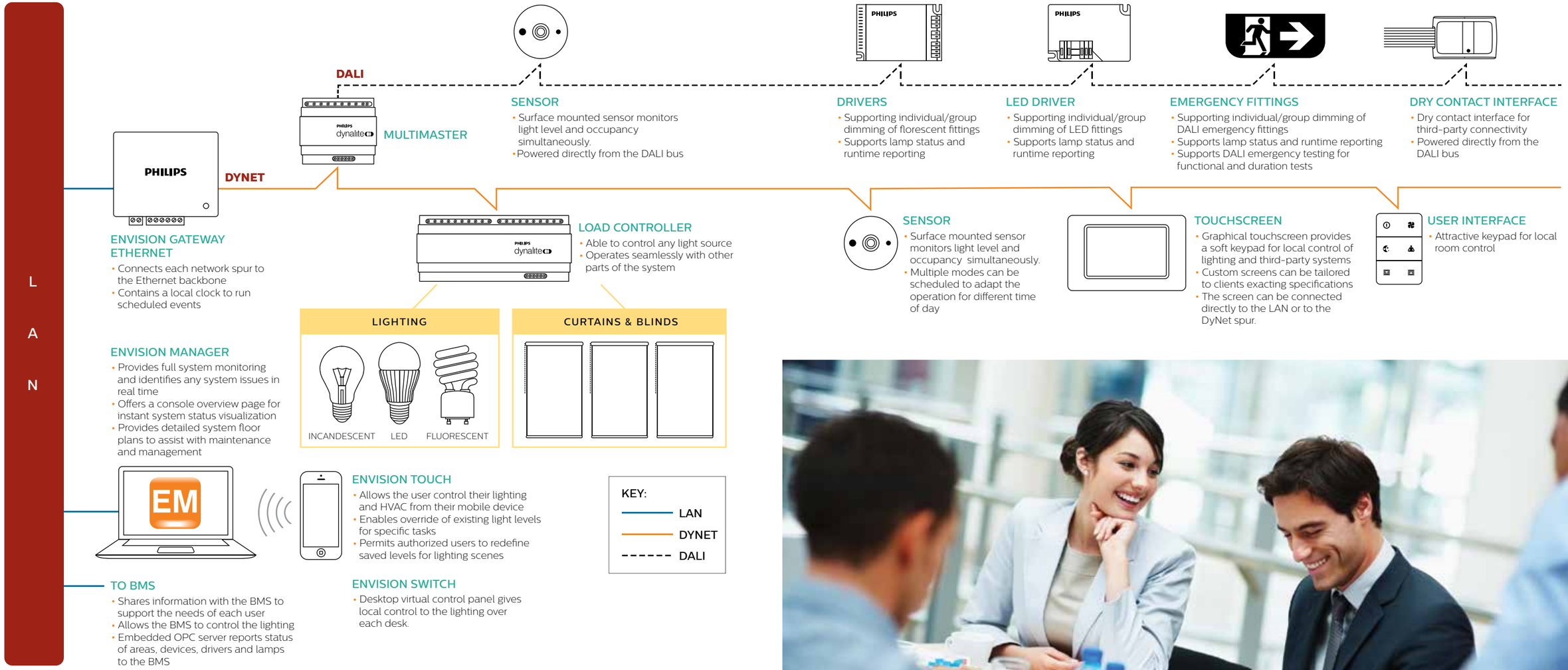
'Report Manager' allows system reports to be generated on hardware status, energy consumption and DALI emergency lighting performance. The report functionality is particularly important with the growing mandatory requirement in different markets for accurate reporting of energy usage.

Corridor hold-on

When an area of a building is occupied after hours, the lighting system can be programed to ensure a lighting pathway is maintained from any occupied area to provide egress, maximizing occupant comfort and safety.

System **architecture**

Philips Dynalite system architecture makes choosing the right control hardware for your project easy with a broad range of load controllers available to match any type of lighting load. The system flexibility where "every product can work with every other product" and its virtually unlimited scalability, means that should you need to change the design as the project evolves, all you need to do is swap out or add on to what has already been designed.



Envision Manager **overview**

Aimed specifically for projects where it is necessary to control and manage lighting, Envision Manager provides the ideal solution for offices, hotels, arenas, stadiums, museums, shopping malls, leisure centers, schools, university applications and more.

Accessibility

Envision Manager permits remote access and control of the system via a web-page, which opens up control through any web-enabled device.

Comfort

Occupancy comfort is supported by Envision Manager's ability to fine-tune lighting levels to meet the exact needs of each end-user for the tasks in which they are engaged. Moreover, any system or component failures trigger immediate alerts to the facilities manager. As soon as a problem is identified, the facilities manager fix it, minimizing disruption.

The Envision Manager difference

- Is compatible with all current Dynalite products/solutions.
- Provides live energy performance monitoring display.
- Controls the entire lighting system on one screen.
- Macro builder allows end-users to tailor the operation of the system to their own needs.
- Monitors hardware performance in real time.
- Controls scheduling, reports, DALI emergency testing, preset scenes and specific events, such as Earth Hour.
- Monitors the performance of all devices, drivers and lamps, with an alert function to send custom notifications.

Scalability

Envision Manager is inherently scalable, able to handle up to 65,535 different control zones within a building and capable of multiple-site applications.

Safety

Envision Manager enables lighting settings to be optimized based on real performance data in each area, enhancing occupant safety. The system's ability to perform testing on DALI Emergency Lighting further ensures the safety of building occupants during emergency situations.

Energy efficiency

Envision Manager promotes energy efficiency through a number of means. It allows lighting in unoccupied areas to be switched off or dimmed down without compromising occupants' comfort or safety and facilitates aggressive energy reduction strategies during out-of-hours or non-working periods.

In addition to this, Envision Manager supports daylight harvesting schemes to balance artificial lighting with natural daylight.

Load Shedding reduces non-essential lighting energy consumption and is often required as part of an energy management strategy. Envision Manager can make this easier by allowing the facility manager to define a load shed state for each area within the building. These states can be initiated easily either directly from EM or from the building management system (BMS).

SCALABLE CONTROL THROUGHOUT THE BUILDING

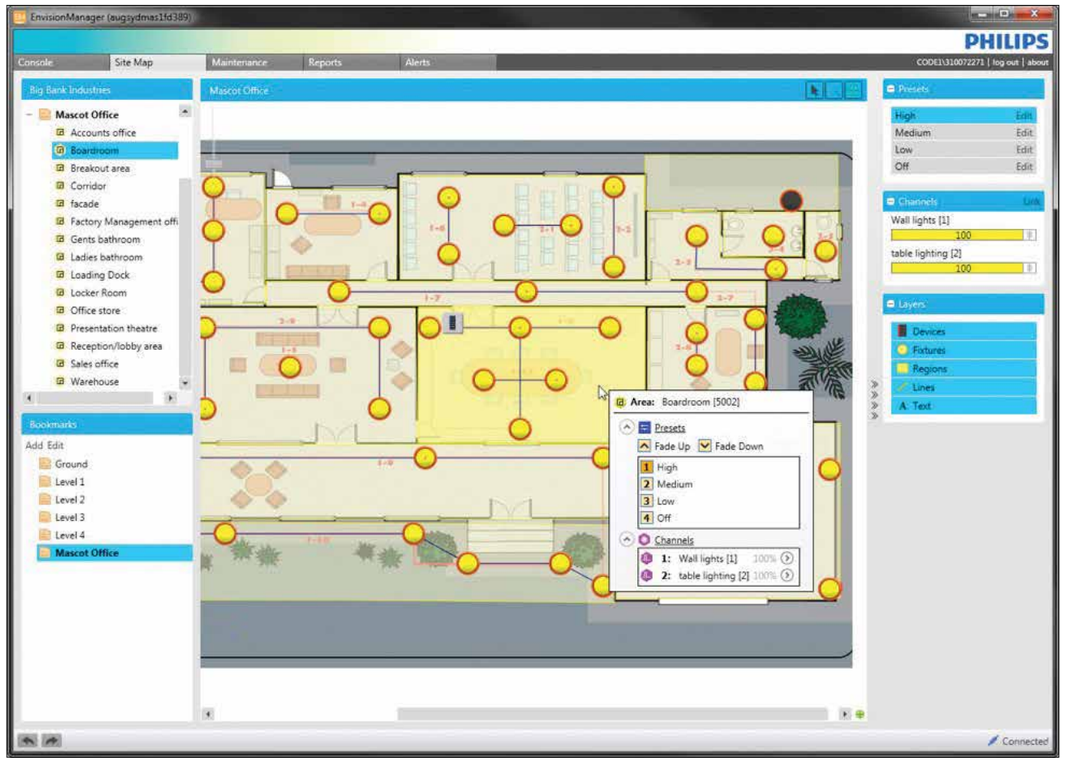
Control

The control aspect of Envision Manager puts the facilities manager firmly in the driving seat. Individual lamps or user-defined groups of lamps can be selected and controlled from the floorplan or overview console. Macros can be created and scheduled to occur at different times of the day or different days of the week. These can be a single action, multiple actions or reoccurring actions.

The system differentiates between working days, weekends and public holidays, creating lighting scenes that support comfort while minimizing energy use. For example, time-out functions for unoccupied areas can be set to 30 minutes during office hours but reduced to five minutes during other times.

Features

- Real time system status
- Highly granular control options
- Streamlined operation



ENERGY PERFORMANCE AND OPERATIONAL DATA AT A GLANCE

Monitor

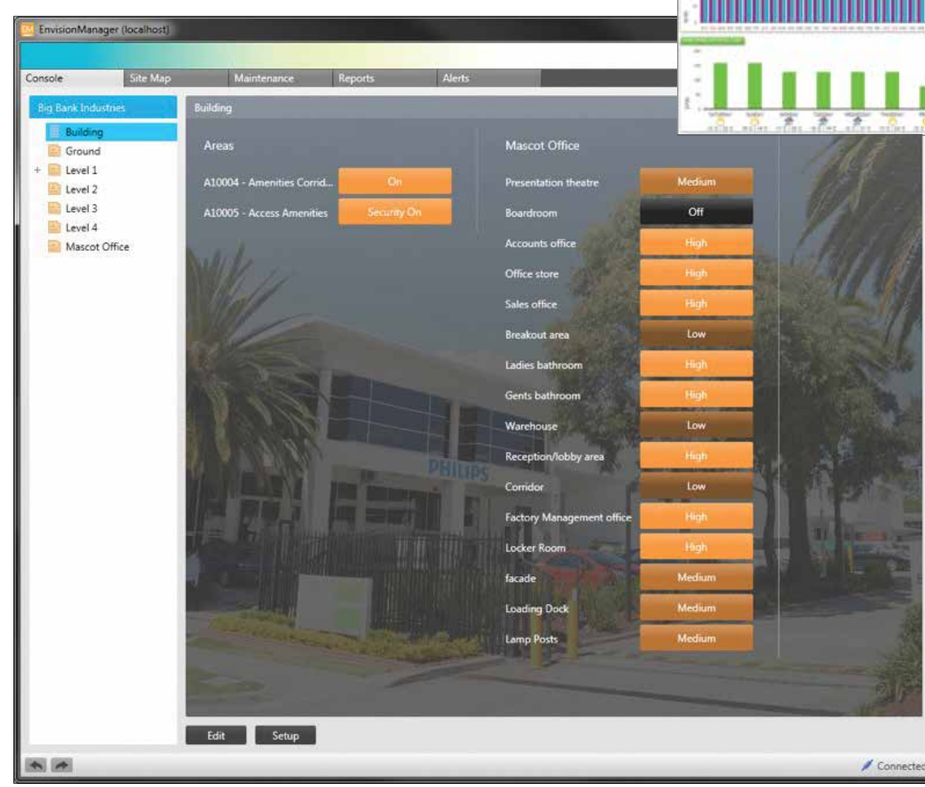
Envision Manager's dashboards simplify monitoring current status and operational performance.

Operational performance can be viewed by area, showing facilities managers how their lighting system is performing and helping to identify where additional savings may be possible.

As well as presenting performance data, Envision Manager is able to highlight a number of additional factors such as: items for attention, pending scheduled activities, the status of each area; and results of emergency lighting testing.

Features

- Visualizes system energy performance
- Provides an analysis tool, Envision Dashboard, to compare the consumption of different areas within the building
- Displays performance graphs on a screen or touchpanel to engage occupants



MANAGE PRE-DEFINED LIGHTING EVENTS, GENERATE REPORTS AND TEST SYSTEMS

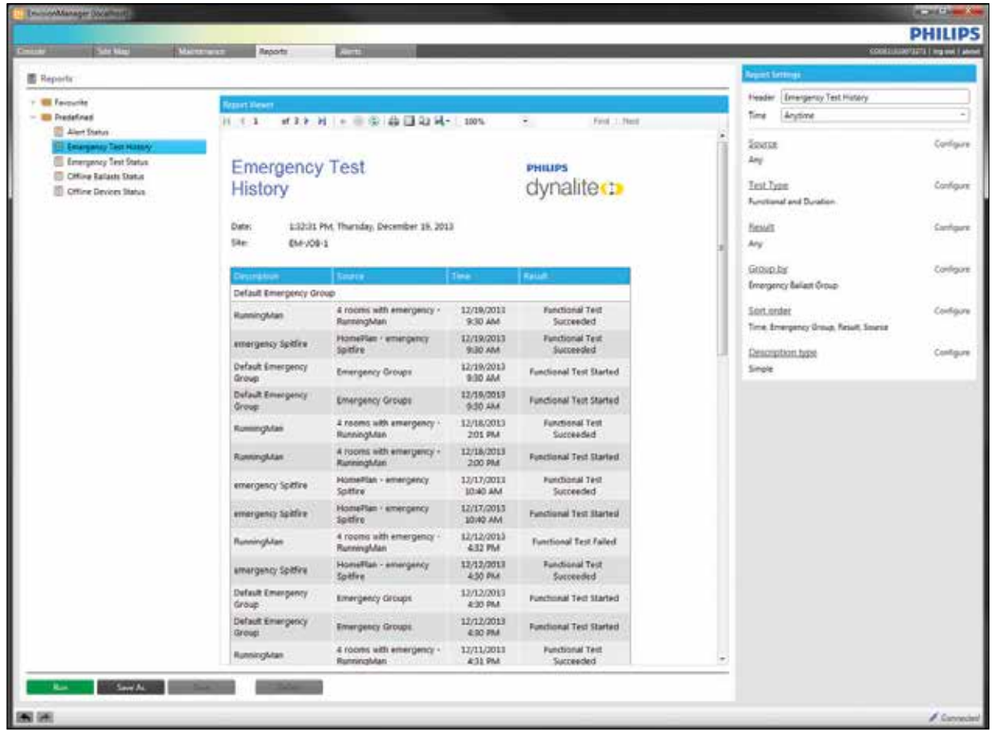
Manage

Envision Manager facilitates a wide range of lighting system management activities.

- The scheduling feature enables pre-defined lighting events to occur automatically at set times or in relation to sunrise/sunset times.
- The reporting feature allows system reports to be generated on hardware status, energy consumption and DALI emergency lighting performance. The report functionality is particularly important with the growing mandatory requirement in different markets for accurate reporting of energy usage.
- The 'Emergency Test' feature enables DALI emergency lighting systems to be tested via the software.

Features

- Scheduled activities ensure the building operates as designed at all times
- DALI emergency tests can be run when the building is unoccupied
- Custom schedules can easily be added by the end-user



IDENTIFY FAULTS AND FAILURES AND ANTICIPATE THE END OF OPERATIONAL LIFE FOR LAMPS

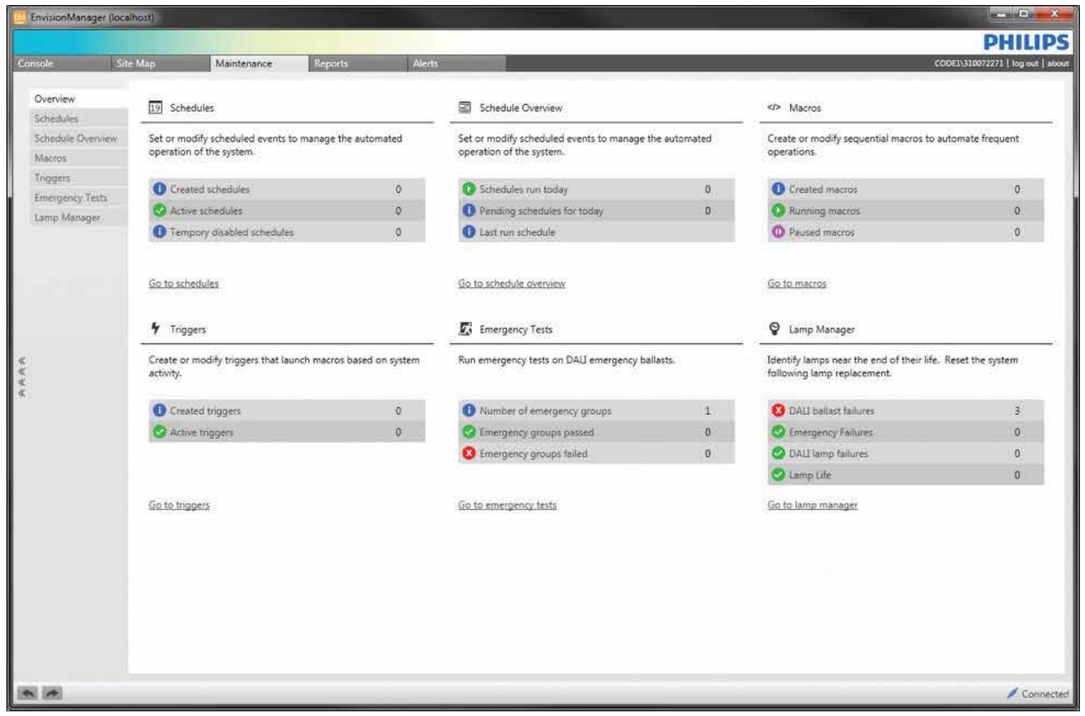
Maintain

System maintenance ensures ongoing occupancy safety and comfort. The 'Lamp Manager' identifies lamps that are approaching the end of operational life or that have already failed. The system can also identify failed drivers and other faults on the system.

The 'Alerts Overview' summarizes current alerts on the system with details of the state of each item. This helps the facilities manager prioritize planned maintenance activities and address unplanned outages.

Features

- Allows staff to manage DALI maintenance, avoiding service call costs
- Shows problems on the floorplan
- Lamp life reports support efficient maintenance



Frequently asked **questions**

- **Is the Dynalite system designed only for large buildings?**
  Not at all, as the Dynalite system is totally modular. It can be installed into any project from a single meeting room all the way through to a project with tens of thousands of areas of control.
- **What happens when our business grows and we want to expand our control system?**
  The Dynalite system can be expanded at any time without disruption to the existing system. This may be additions to an existing area such as new luminaires or it could be additional meeting rooms, conference rooms, breakout rooms, whole new sections or floors.
- **I heard that it is very expensive to make changes to the system once it is installed. Is this true?**
  No. Envision Manager supports the ability for authorized end-users to make certain temporary or permanent changes to the lighting levels. Users can also modify the macros and schedules as the needs of the site change over time. If the system needs large scale changes then we recommend a service call from a Philips Dynalite Certified Programmer.
- **How can I control specific lighting in my office easily without having to add expensive light switches?**
  Envision Manager comes with an application called Envision Switch. This application runs on a user PC and will give the user control of their lighting just as if they had a light switch in their office. For portable users, Philips Dynalite offers a range of mobile apps that can be configured to suit the needs of each user.
- **Why would I not just use the Building Management System (BMS) to manage my lighting?**
  While managing the day to day operation of your lighting system, Envision Manager is also collecting and analyzing system data to ensure performance levels are maintained. This is a very specialized process best suited to a dedicated lighting control system. Envision Manager can share its data with a BMS on projects where the user needs to view the complete building status from the different sub systems on a single screen.
- **Can the Dynalite system support DALI drivers?**
  The Dynalite system provides access to all the standard DALI features such as lamp and driver status and emergency fixture battery testing. Additionally the Dynalite system supports as many fixtures as needed in a single lighting group by grouping addresses across multiple DALI networks. The Dynalite software supports re-zoning of lighting groups if project needs should ever change, keeping the system current. The problems of DALI driver replacement are easily overcome using Envision Manager's built-in DALI replacement wizard.
- **We have color changing architectural lighting in our building. Can I control and manage these lights using Envision Manager?**
  Envision Manager gives the user the ability to control color architectural fittings in the same manner as conventional fittings, but with the addition of a color picker to let the user specify the exact color required at any time. This color can then be scheduled from Envision Manager.
- **I have been hearing about Philips' range of warm/cool white tuneable fittings. How do they fit in with the Envision Manager offering?**
  Envision Manager presents graphical icons representing warm/cool white fittings. These fittings are portrayed with two sliders; one to set the color temperature and the second slider to adjust the lamps intensity.

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