

Synapsys Solutions Ltd has developed the Synapsys IP (SIP) DALI System that allows the integration of the BMS onsite and the DALI (Digital Addressable Lighting Interface) lighting devices in the building. The SIP easily allows configuration and selection of lighting scenes, providing flexibility of the lighting structure in a building or area, depending upon requirements at any specific time within retail, commercial and public sector buildings.

The following case study demonstrates how the system is being installed in B&Q stores throughout the UK.

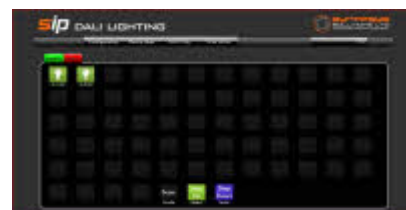
Within B&Q stores the overall aim is to optimise natural light to reduce energy costs and the carbon footprints whilst recognising that lighting control will be required for specific areas and at specific times.

The requirement was for a lighting control system that controls specific requirements and offers the flexibility to control lighting subject to variables such as natural light levels, temporary area lighting needs and the ability to report to the Trend System. The SIP Dali System has been configured to meet the exact requirements of the B&Q store lighting layout.

The lighting loops are wired to the SIP Panel and the first stage of commissioning is to establish that all lighting is under the control of the SIP panel. Each lighting unit is then given a specific address and the lights are then grouped depending upon location (for example: Lighting, Entrance, Kitchens & Bathrooms). A time signal is sent from the Trend BMS to the specific lighting groups for Trading & Closed hours and light levels are preset to appropriate levels for each location. During closed hours all lights automatically set to 50% for restocking, cleaning and maintenance requirements.

The rest of the store lighting is dimmable and these lights are sub grouped and then associated with the nearest pre installed sensor and adjusted to a pre agreed setting such as 650 lux using software setpoints and light meters. These lights will then automatically dim or adjust to natural light levels. The sensors also feature PIR detection for future implementation. The system includes a key operated manual override and automatic override in case of power failure to the SIP Panel.

The key benefits of the SIP Dali system are the ability to maximise lighting where it is needed to improve presentation whilst reducing energy consumption in the general areas.



No special software No special training

Intelligent Lighting Scenes

Versatile, Intelligent,
Communication Capability

For Dimmable Ballasts

Flexible System
Quick & easy to change

Trend/BMS Compatible

Direct Web Control for Engineering,
Configuration & Reporting

SIP Virtual Metering
- Energy monitoring
- Sub-metering
- Control
- Billing

Self Healing Networks

Full Emergency Ballast
Testing & Reporting



CASE STUDY

B&Q Stores

Trend Control Systems

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