Emergency lighting
Emergency lighting is a requirement for most commercial buildings.

Automatic monitoring is a good way to reduce ongoing testing costs.
DALI emergency lighting

- DALI is the only published, certifiable and auditable standard for remote monitoring of emergency luminaries (IEC 62386)

- DALI has a full set of testing procedures and protocols for control system / device interaction and deals with
  - How to perform a test and report with valid and correct responses
  - How to deal with faults and report them accurately
  - How to deal with other edge cases and how they shall interact

- A certified device is tested to ensure that it performs devices 100% as the control system and the standard describes and includes testing timing accuracy

- A compatible device has no guarantee that it tests the device correctly or provides correct results to the control system
Integrating DALI with emergency

- The logical step of combining DALI lighting and DALI emergency lighting together allows for
  - Reduced cabling cost
  - Reduce installation costs
  - Reduced Hardware / PC/ Routers
  - Removal of duplication and training.
  - Auditable installations. (other DALI vendors / installers can be called to check the DALI lines and devices)
zencontrol emergency
Emergency testing

- Emergency testing can be hard, technically it is more difficult than most lighting control system functions.

- zencontrol utilises an emulated state machine to ensure complete fault tolerance.

- Our systems ensures full compatibility with DALI compliant emergency devices and guarantees full functional testing.
Reporting

▪ Break down buildings into tenancies
▪ Allow each tenant to test their own areas
▪ Automatically stage emergency tests to reduce risk
▪ View complete test reports or just faults
▪ Email completed reports
▪ Allow other system to obtain emergency tests via BACnet
Commissioning

Problem

- Emergency products need to be addressed and located as part of regulations
- Normally commissioning is a two-person job
- An Identifier (number) needs to be placed onto each fitting as part of AS2293
- On device failure, the commissioning needs to be redone to add the new replacement
Solution

- zencontrol Easy Commissioning Modules (ECM)
- Easy plug and play addressing module
ECMs

- Each ECM comes complete with 5 identification labels and a pre-addressed module
- A complete kit is supplied with enough to complete one DALI line
- Four different coloured kits can be supplied
  - Black
  - Green
  - Red
  - White
Use

▪ Plug the ECM into the emergency fitting on installation (normally undertaken by the electrician)

▪ Use the identification labels provided to label the fitting. You can use the extra labels to mark on the plan in your building register.

▪ Try to use same colour ECMs for the entire floor or DALI line.

▪ The ECM will assign the DALI device a DALI short address on start-up removing the addressing requirements.
Replacing a failed device

If an emergency device needs to be replaced due to a fault you can remove the ECM and place it into the new Ektor emergency device.
Room controller

▪ Room controllers fully support the ECM modules

▪ Room controllers will not reassign a short address to any device which has an ECM

▪ Because there is a small number of emergency devices in each room, additional commissioning is not required

▪ In a room control setup, each room is given a logical name, for example “office 3.022”. Each emergency device found in the room is natively assigned the location of the room (ie Office 3.003 Address B-01)

▪ This automatic logical addressing helps locate and identify the device.
Thank you
for your attention