D4i standard in outdoor: Importance for customers

Peter Duine / Jan Fitters
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Why customers need standards in public lighting?

- Secure serviceability of long lifetime of LED Luminaires (>20 years)
- Support of fast evolving wireless technologies for Smart Cities
- Open standards for plug-and-play interoperability over multi-vendor products
- Compatibility of data storage/retrieval for asset management, energy reporting and diagnostics.
- Upgrade of digital functions of smart luminaires
- Certification of products by independent parties
Complete solution

**Zhaga book-18**

- **DiiA Aux** Auxiliary supply (24V)
- **DiiA Part 253** Diagnostic information
- **DiiA Part 252** Energy metering
- **DiiA Part 251** Asset management info
- **DiiA Part 250** DALI power supply

**DALI-2 Part 207** LED modules
- **DALI-2 Part 102** Control Gear
- **DALI-2 Part 101** System

**Xitanium driver implementing D4i**
- Accurate energy-metering
- Backwards compatible with SR1.7
- Asset information must be filled in

**SR Certified nodes implementing Z-D4i**
- Fit on Zhaga receptacle
- Operate on all SR outdoor drivers
- Choose node product depending on required feature set

**Zhaga connector secures future-proofness and compatibility**
Universal Zhaga book-18 connector

Node on top for GPS and RF communication

Sensor on bottom for presence, traffic, air quality
D4i for the end-user

✓ D4i opens the arena of connected lighting applications
  • Simple, standardized and scalable

✓ Ecosystem offer
  • Flexibility to choose from range of products
  • Plug & Play products with Zhaga book-18 connector

✓ Data availability and usage
  • Luminaire information
  • Energy reporting
  • Diagnostic and Maintenance information

✓ Guaranteed peace of mind
  • Robust and mature products
  • Always works!
Z-D4i luminaires

Simple
- Easy to use
  simple user interface. No expert knowledge needed.
- Flexible
  Straightforward, plug and play solutions.

Open
- No proprietary technology
  World-wide standards ensures compatibility.
- Freedom of choice
  Seamlessly connect of different providers.

Innovative
- IoT-ready
  Simple add sensing, connectivity and intelligence to lighting.
- Innovative
  making use of latest technologies.

Scalable
- Future-proof
  Solutions are scalable and future requirements in mind.
Lessons learned

1. Standardization essential for public lighting
2. Customers need official bodies they can refer to
3. Introduction of new standard needs time and conditions needs to be met
4. Partners are needed to create a standard