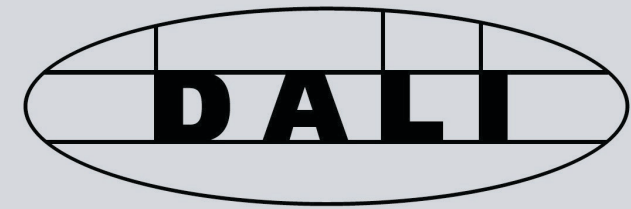


D4i standard in outdoor: Importance for customers



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Peter Duine / Jan Fitters

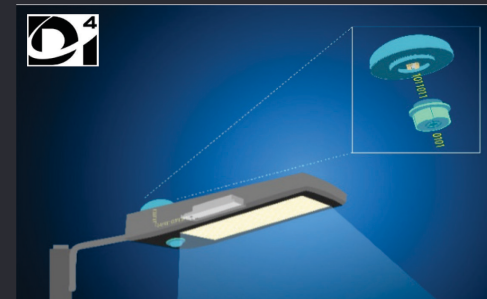
September 25, 2019

Why customers need standards in public lighting ?



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- 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



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- 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 book-18



- Zhaga connector secures future-proofness and compatibility

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



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

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

Universal Zhaga book-18 connector



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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



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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.



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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

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