

# Zhaga Press Release

## How Zhaga addresses Sustainability and the Circular Economy

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*The Zhaga Consortium has published the White Paper “How Zhaga addresses Sustainability and the Circular Economy”. The publication points out that durable, repairable, and upgradeable LED luminaires are key elements to sustainable lighting. It explains that Zhaga is developing and standardizing interface specifications for components of serviceable luminaires, to help facilitate a new market framework called “Circularity Lighting”.*

Sustainable action in the lighting industry means, above all, the provision and continuous development of energy-efficient lighting solutions and the resource-saving design of durable and serviceable products. Serviceable products and systems are characterized by properties like repairability, upgradeability, replaceability, being future proof and durable. Such products and systems are designed in a modular way and the interfaces of the components used are based on standardized and widely recognised specifications. Zhaga uses the term ‘Circularity Lighting’ for a market framework with products and systems that support the aims of the circular economy through enhanced serviceability.

The White Paper describes various problems to be addressed

- The different life cycles of luminaires and connectivity solutions
- Even luminaires of high quality and durable design can experience an early failure
- An upgrade of product features may be desired

Solutions are illustrated referencing to the Zhaga specifications

- [Book 18](#) and [Book 20](#) about intelligent interfaces between outdoor resp. indoor luminaires and sensor /communication modules
- [Book 24](#) and [Book 25](#) that allow programming of LED control gear from different manufactures by using unified NFC programmers.
- [Book 21](#) and [Book 26](#) about linear socketable LED modules that allow the selection of modules with desired characteristics (efficiency, colour temperature, CRI, etc.)

The White Paper is available [here](#) and will be explained during the Zhaga Summit on 29 September 2021. See the program and register [here](#).

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### About Zhaga

Zhaga is a global association of lighting companies that is standardizing interfaces of components of LED luminaires, including LED light engines, LED modules, LED arrays, holders, electronic control gear (LED drivers), connectors and sensor and/or wireless communication modules. This helps to streamline the LED lighting supply chain, and to simplify LED luminaire design and manufacturing. Zhaga continues to develop specifications based on the inter-related themes of interoperable components, smart and connected lighting, and serviceable luminaires. For more information, visit [www.zhagastandard.org](http://www.zhagastandard.org).