

Profile TALQ Consortium

Uniting Smart Outdoor Lighting

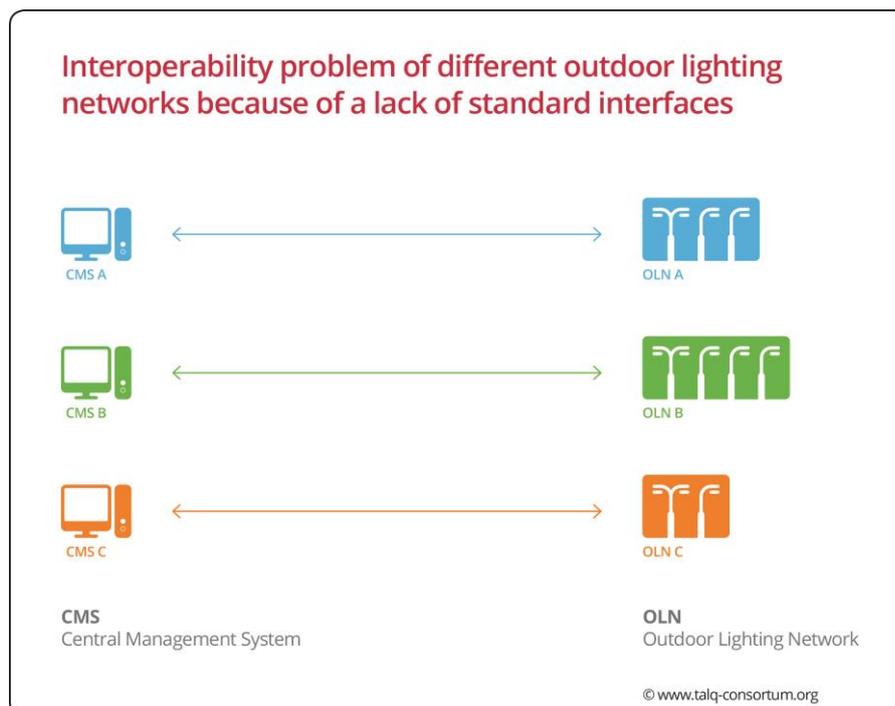
The TALQ Consortium has defined a specification for a management software interface to control and monitor heterogeneous outdoor lighting networks, for globally accepted standardization. Founded in May 2012 the consortium has grown to represent a majority of the global outdoor lighting industry.

The overall benefits of Smart Outdoor Lighting

The broad introduction of networked and intelligent outdoor lighting would bring important benefits to society:

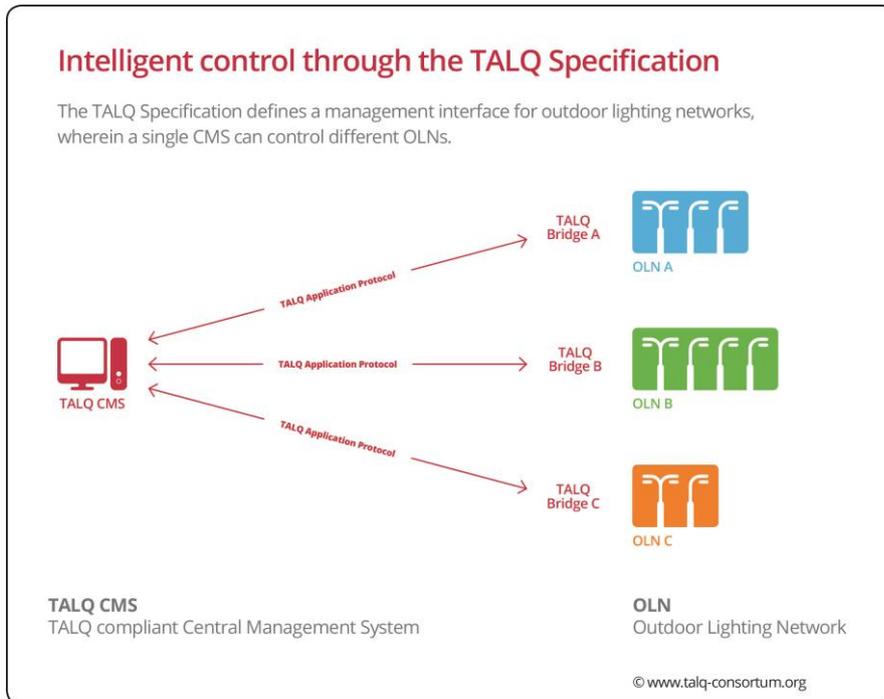
- Energy consumption and CO₂ emissions worldwide will be drastically reduced
- Networked outdoor lighting is increasing cost efficiency
- Many possibilities for lighting on demand will arise
- Enhanced lighting operations management

A major obstacle for the networked outdoor lighting market to take off is the lack of a single protocol to manage various outdoor lighting networks. Because of this, customers, such as municipalities and utilities, hesitate to invest in new technologies. A standard management interface protocol needs to support various kinds of network technologies to provide customers with as wide a selection of vendors as possible to overcome the fear of being locked-in.



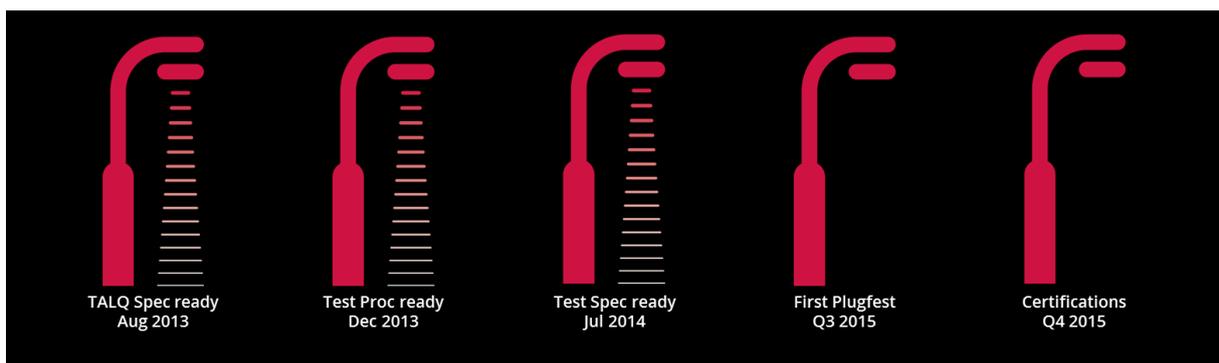
TALQ Specification and Certification

The consortium has developed and defined a standard specification for a management software interface to control and monitor diverse Outdoor Lighting Networks (OLNs). This TALQ specification focuses solely on the so-called ‘application layer’ of the interface protocol and is neither defining the physical layer nor the network layer, thereby allowing maximum freedom for manufacturers to develop optimized solutions within an interoperable framework.



Some of the key features are multi-level control of light points, extensive calendar and programming functions, monitoring and data logging functionality, as well as scalability and security support. The TALQ Interface is built on standard internet protocols and security standards, such as XML/HTTP and Transport Layer Security, and is independent of connectivity technology.

Currently the TALQ members are developing the test process to check whether new products and solutions are compliant with the TALQ Specification. For this a compliance test tool is generated and ‘plug fests’ are being organized, at which interoperability among systems of different vendors can be proven. The first TALQ certification of actual products is expected by end of 2015.



In order to indicate TALQ compliant lighting system components from different vendors the TALQ Symbol has been designed. Only products that are certified by the TALQ Consortium will be allowed to carry the TALQ Symbol.



Definitions:

Outdoor Lighting Network (OLN)

An OLN is a communication network of outdoor devices such as Light Points controllers, Gateways, Segment Controllers, Sensors, for purpose of saving energy and maintenance optimization.

Central Management System (CMS)

A CMS is a device (whether hardware, software or combination thereof) which communicates with the OLN's to remotely configure and operate the OLN's components. A CMS as an application server providing web or PC based user interface is able to manage the lighting infrastructure (e.g. assets, schedules, manual overrides, alarm triggers) and monitors the operating conditions (e.g. burning hours, voltages, failures) and performance reports (maintenance, energy consumption).

Organization of the TALQ Consortium

The TALQ Consortium consists of Regular and Associate Members, which together form the General Assembly. The Regular Members elect the Steering Committee to oversee all activities of the Consortium. The Secretary General runs the day to day activities and reports to the Steering Committee and General Assembly.

The 'Technical Work Group' develops the technical specification(s), and the 'Certification Work Group' is in charge of defining the certification policy and compliance tests. The 'Promotion Work Group' takes care of the promotional activities of the consortium. All work groups and achievements are supervised by the Steering Committee.

The official spokespersons of TALQ Consortium

Gerard Lokhoff, Secretary General



Gerard Lokhoff has been the Secretary General of the TALQ Consortium since its formation in 2012. He is Senior Standardization Officer with Philips, and has a wide experience in international standardization projects, such as the Marlin Open Digital Rights Management system and even going back to the development of the mp3 audio standard.

Christophe Orceau, Chairman of the Steering Committee



Christophe Orceau has been the chairman of the Steering Committee of the TALQ Consortium since the first election in 2012. Christophe is the founder and General Manager of Streetlight.Vision, a Central Management Software that is in use in more than 500 outdoor lighting control projects in 15 countries, and that supports many heterogeneous manufacturers's products. Christophe shares with the other TALQ members his 10 years international expertise in supporting many proprietary protocols and systems in the outdoor lighting control market, to make the TALQ protocol a success.