Central Control and Management Systems for your Road and Street Lighting

Version: 1.01 Date of Issue: 26/08/16

Qulon Software and Database

Software and Web Client for Oulon CCMS

Functionality

- Remote control, setup, diagnostic, programming, and scheduling of street lighting behavior.
- Real-time switching of power cabinets, individual luminaires or luminaire groups.
- Display of remote objects and their status on the integrated map
- Power consumption and system performance reports in form of tables and graphs.
- Immediate identification of lamp failures and threshold exceeding.
- Scheduled report via email + alarm notifications through text messages
- Lamp replacement forecasts and notifications
- Full mimic diagrams of your lighting installations
- Integration in third-party telemanagement systems

Database key features

- Advanced reporting tools and performance graphs Flexible scheduled reporting tools
- Easy web access
- Real-time power saving information
- User access level management
- Grouping / filtering / updating





Reporting Capabilities

- Reports from various additional sensors such as weather and traffic
- Analytic tool that shows real-time information about power consumption and financial savings



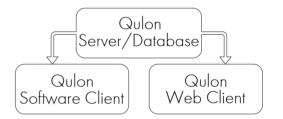
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QULON CCMS by Sundrax Electronics provide extreme performance and reliability for fail-proof individual remote control of any luminaire type bringing adaptive lighting and is increasing or dimming the lights on demand. Professionally tailored on CCMS collects various electricity data from lighting cabinet (current, power factor, cumulative power (kWh/kVAh), active and apparent power, voltages, etc) and then sends it to server via GSM/GPRS/EDGE mobile network. All the programming of central module of CCMS is done remotely from the software. All created on/off/dimming schedules are stored in it so all equipment can operate without internet connection.)









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Data Export and IT Compatibility

QULON software components can be easily integrated into any existing municipal supervisory control and data acquisition systems to provide remote control of outdoor street and architectural lighting.

QULON software is capable to exchange data in different formats and via different protocols.



System Requirements

Platform Compatibility

- Qulon Web Client: PC/Mac compatible, iOS/Android/ Windows tablet smartphone compatible
- Qulon Software: Microsoft Windows compatible

Minimal Hardware Requirements

<u>Server:</u> Processor: Intel® Xeon® E5-2.2GHz or equivalent Memory: 24 GB RAM Hard Drive: 5 GB of free disk space <u>Client:</u> Processor: Intel® Pentium® 4 or equivalent Memory: 1 GB RAM Hard Drive: 5 GB of free disk space

Supported Maps

- Google Maps
- OpenStreetMap
- Yandex
- Microsoft Maps
- Uploaded map files

Software Requirements

Server:

Microsoft® IIS 7.0 Microsoft® SQL Server Microsoft® .NET framework 4.0 Operating System: Windows Server® 2003 or higher <u>Client:</u> Operating System: Windows XP®, Vista®, 7, 8, 10 Internet Explorer® Mozilla Firefox Google Chrome Opera

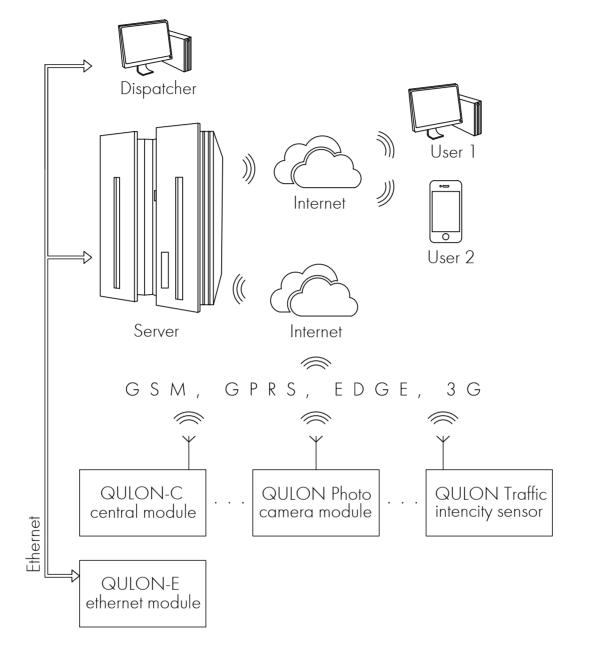


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Network Architecture



Product Line

Name

QULON Software, STANDARD plan QULON Software, PROFESSIONAL plan QULON Software, ENTERPRISE plan QULON Software, MEGACITY plan

Product code

QUL-CLIENT-STD QUL-CLIENT-PRO QUL-CLIENT-ENT QUL-CLIENT-MEGA

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