Smart**Lighting** OLIVETTI DIGITAL ENABLER

Higher levels of intelligence applied to managing infrastructures and resources to meet the needs of citizens

O olivetti

Plan sustainable, innovative, economic growth exploiting the virtual world of mobile services, Internet of Things and social networks to interact with the technical infrastructures of buildings, roads, parks and intelligent utilities.

In the time of Smart City, many entities are evaluating introducing innovative lighting systems, primarily to minimise costs and pollution but also to increase sustainability, reducing to a minimum not only consumption but also maintenance.

Smart Lighting goes further than the simple replacement of a light source, consisting of a complex system able to satisfy the dual need for public lighting system development and **remote management** and **control** over a Cloud platform. Via the application, all system status reporting can be viewed, such as potential fault conditions, allowing real-time consumption controls, switching on/off, timed lighting control and data flow analytics with the possibility of drill-down analyses.

Smart Lighting consists of efficient devices and light sources allowing management, automated interventions and control in each reference environment.

PURE WEB - NO SOFTWARE INSTALLATION NECESSARY ON CLIENT

CONTROL ROOM READY - SCREENS CAN BE SENT TO DIFFERENT MONITORS WITH INFO ALWAYS SYNCHRONISED

MOBILE ORIENTED - RESPONSIVE BROWSING

MODULARITÀ - DIFFERENT MODULES CAN BE ACTIVATED

BIG DATA - BIG DATA RESOURCE MANAGEMENT AND DATABASE ARCHIVE MANAGEMENT

INTEROPERABILITY - OPEN TO EARLIER PLATFORMS WITH WEB SOCKETS AND WEB SERVICES

SERVICE FUNCTIONS

CONNECTED LEDS
Olivetti Smart Lighting allows pervasive remote management of LED lighting systems and their associated Smart City services. Levering on wireless technology and radio multi-point communications, real-time information on system operation travels over secure rapid channels without the need for existing hardwired systems. Visual and architectural impacts are kept to a minimum through compact antenna installed on the elementary structure. The height of lampposts and capillary, high concentration installations provide the best conditions for reliable wireless communications.

SMART CITY INFRASTRUCTURE
With the prospective of Smart Cities in rapid expansion, full integration of public lighting systems with diverse, heterogenic systems becomes a necessity. Weather stations, traffic detectors, car park control systems, air quality sensors and variable message signs are just a few examples of services integrable on the Smart Lighting platform. All this with the guarantee that IoT platforms are fully interoperable with current Smart services, and will continue to be in the future.

CENTRALISED CONTROL
- Multi-luminary digital control (via DALI): Switching On/ Switching Off/Dimming
- Telediagnostics: remote monitoring of drivers/ LEDs, alarm reception, DALI communication status, radio communication status
- Remote data reading: temperature, tilt, operational hours, effective dimming
- Remote firmware updating

WHY PURCHASE

ECONOMICAL BENEFITS
-Energy cost reductions (up to 65%)
-Extended plant lifetimes with improved resistance to wear
-Servicing scheduled exclusively on the basis of anomalies detected by telediagnostics
-Administration possible by single operator without the need for heavy use of personnel and equipment
- Materials savings by concentrating on components that are actually defective
-Optimisation of warehouse and vehicle management
-Guaranteed safety from acts of vandalism due to height of device installation

ENVIRONMENTAL BENEFITS
Olivetti Smart Lighting remote control systems optimise management and control of lighting systems with marked reductions in light and environmental pollution.

HETEROGENIC APPLICATION SCENARIOS
Remote control technology constitutes a valid reliable technical solution for different application scenarios from outdoor lighting systems (roads, cities and building exteriors), to indoor lighting (industrial facilities and offices) and tunnels.

OTHER ADVANTAGES
- Improvements in light quality, visibility, resolution, security
- Ready for integration with smart metering and smart sensing

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