CASE STUDY

Smart Cities: The E-redes public lighting solution

meazon.com

Description

- Meazon was awarded by Portuguese DSO the development of its public lighting management system (Meazon streetlighting controller technology and GW Janus)
- Meazon system was integrated to E-Redes' existing Flex-ip management platform
- Initial project includes the roll out of Meazon street light controllers and gateways in 18 cities in Portugal
- Next phase that is currently under discussion involves the development of a vision sensor to integrate parking and traffic information into the backbone

E-REDES

Customer objectives & challenges

- Establish an open, interoperable and flexible architecture in order to allow working with several manufacturers and direct integration into EDP Distribuição systems, facilitating the adoption of these solutions and their technological evolution
- Increase the efficiency of public lighting, allowing the regulation of the luminous flux in periods of lesser influx of people/vehicles on the public road
- Improve the performance of EDP Distribuição in the management of public lighting
- Allow the remote configuration of the lighting as well as receiving alerts about the current status of the luminaires/controllers
- Prepare the public lighting infrastructure for the provision of features associated with smart cities
- Allow the municipality to have greater visibility and control over Public Lighting, through access to the management platform

Key Benefits

Minimum OPEX requirements to install & manage infrastructure

- Zero installation effort. Automatic connection to platform or standalone operation
- Advanced protection from lightnings (40 KA)
- Quality design ensuring controller low failure rates

Increased service efficiency & robustness

- Flexibility in dimming strategies (profiles & automatic recognition of people – WIP with specially designed smart vision sensor)
- Real time info on luminaire's turn on or off & hourly consumption status
- Minimized wireless datacom latency
- Fully controllable to device level
- Increased service availability when loss of communication with platform or even platform failure

E-REDES

" We were interested in the development of a complete streetlight solution, with reliable communications to ensure the solution's success. Also, we were looking for a solution open to innovation and that was able to keep up with the growth of the whole system. Meazon impressed us by their in-depth understanding of the technology, the quick response for new features and detailed documentation provided.
Additionally, the agility & can-do attitude of Meazon played a crucial role in our partnership. "

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