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measure | monitor | manage

CASE STUDY

Smart Cities: The Case of Western Greece Prefecture

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Description

- Meazon was awarded by METKA the delivery, set-up, commissioning and support of **12.500 streetlight controllers using build-in NB-IoT wireless connectivity**
- The solution included Meazon's Measure as a Service Cloud Gateway middleware platform that secured the real-time data exchange to and from the streetlight controllers, the controllers' device management service and the real-time data communication to and from the streetlight application, using an API type of integration



Customer objectives & challenges



End customer (Western Greece Prefecture):

- Provide citizens & visitors of Prefecture a state-of-the-art high-level streetlighting service in roads and tunnels
- Assign the implementation and ten years operation to an experienced contractor, leading to increased service quality, accountability and cost efficiency

Contractor:

- Deliver a state-of-the-art streetlighting solution in compliance with end customer's functional specifications
- Run a fully manageable solution for 12.500 controllers using public mobile connectivity (NB-IoT) for open air roads & mesh networking (Zigbee) within tunnels, that will increase operational efficiency and prolong luminaires' life expectancy
- Keep maintenance and installation costs, low and under control

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 strategies (profiles & automatic recognition of people – WIP with specially designed smart vision sensor)
- Real time info on luminaire's turn on/off & hourly consumption status
- Minimized wireless datacom latency
- Increased service availability when loss of communication with platform or even platform failure
- Manageability to device level, including over the air s/w updates & upgrades
- Easy integration to 3rd party application providers using Meazon's cloud gateway middleware platform API