Proscend Dual SIM Industrial Cellular Router M300/M301 Series for Utilities in Europe.

## Background

In Europe, A communications company offers public services for the city and the region of Township. The company supplies electricity as well as natural gas and drinking water.

## Application Requirements

Each element (electricity, natural gas and drinking water) need to be measured to know how many was consumed and to know the price the customer has to pay. Therefore, each element has his own meter, to measure the quantity. Each application must be isolated from the other application because there are different users.

## Application Features

Each household has electricity and drinking water, some households have also natural gas. All this element has new an IP-meter which measures the consumption of the element. The company has built a network to collect all the inputs from these different meters. Some buildings are not reachable by fiber or copper cable so they need to use 4G LTE Cellular Routers. The featured communication protocol they need is VLANs (Virtual Local Area Networks) because different data from electricity, natural gas and drinking water must be separately. Proscend's Industrial 4G LTE Cellular Router became the best solution for this problem. The Cellular Router delivers OpenVPN and VLAN functions to meet this application.
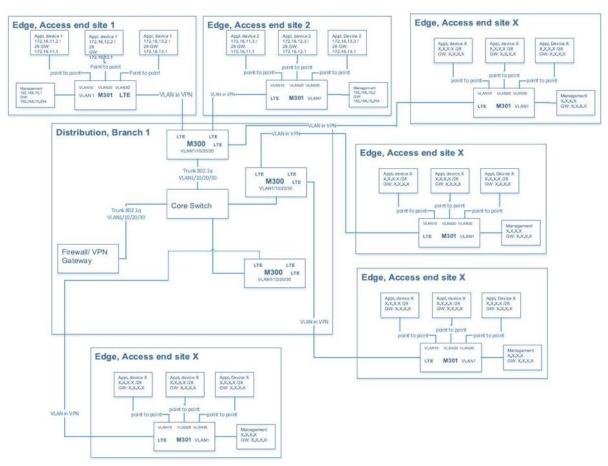
## Product Used

**Proscend's Industrial Dual SIM Cellular Router M300 and M301 Series**

- 1 x LAN + 1 x WAN ETH ports (M300 model) ; 3 x LANs + 1 x WAN ETH ports (M301 model)
- Highly reliable and secure for mission-critical cellular communications
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat4
- Built-in dual SIM for network redundancy
- Integrated dual detachable antenna against radio interference
- LED indicators for connection and data transmission status
- Industrial rated from -20°C to +70°C for use in harsh environments
- Metal Housing with IP40 industrial-grade protection
- IPv6/IPv4 dual stack and all applications are IPv6 ready
- Support various serial communication protocols for M2M connectivity
- Enhance security and encryption for authentication and transmission

## Application Topology