Vision

# Introduction

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem | There have been roles modifications in energies production and consumption. |
| affects | Metrology has been impacted. |
| the impact of which is | Old devices aren’t appropriated anymore. |
| a successful solution would be | We have to implement new Intelligent Meters. |

## Product Position Statement

|  |  |
| --- | --- |
| For | Consumers |
| Who | need adapted devices. |
| The (product name) | ElecTek, |
| That | can collect and send the right informations, |
| Unlike | the old devices who aren’t compatible anymore |
| Our product | our product will be compatible from now on. |

# Stakeholder Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| Measurement Point Operator (MPO) | Owner of the measurement device | He provides the service in charge of measuring either the energy consumption or the energy production of the other actors. He is the administrator of the device and he has to configure and maintain it. He has to define the internal Real-Time Clock of the device. |
| Remote Read Out Center (RRC) | Data collector | His role is to collect data and send them to the right actors depending on the energy produced (electricity, water, heating, gas). He receives the measurements from the Intelligent Meters to respond to the needs of calculations and billing. |
| Energy Provider | Provides energies | He defines the price to inform the customer on the current energy cost. He may need to modify the Remote reading center, in that case this modification must be sent to the device. |
| Energy Producer | Produces energy | His role is to sell the energy produced to the consumers. |
| Consumer | Receive energies and consume them | The consumer has to choose an energy provider. The new Intelligent Meter will be installed at his place. He should not proceed to any modification on the device. |

## User Environment

*The solution is the development of intelligent meters links. They will have to insure the intelligent meters data reading, the local communication and the external communication.*

*A group of features will have to be implanted in order to receive and send data through the different networks. Consumption data will be communicated from the meters to external entities and otherwise.*

# Product Overview

## Needs and Features

|  |  |  |  |
| --- | --- | --- | --- |
| **Need** | **Priority** | **Features** | **Planned Release** |
| *Electricity Meter* | *Very High* | *Provide measurements* |  |
| *Peripheral LEDs* | *Medium* | *Visualize the different states* |  |
| *Display* | *High* | *Provide direct interface to the client* |  |

# Other Product Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement** | **Priority** | **Planned Release** |
| *Communication between the link and the meter* | *High* |  |
| *Communication between the link and the remote reading center* | *High* |  |
| *Communication between the link, the display and the peripheral LEDs* | *High* |  |