

# ADvantic Sistemas – Analyzer Tool



## Advantic Sistemas Y Servicios S.L

**Project:**  
Analyzer Tool

**Industry:**  
Electronics

### Technologies / Platform:

- PHP
- C++
- MySQL
- Mantis Bug Tracker
- BootCamp

### Business Benefits:

#### Consumer

- The sensing application brings closer the world around us by enabling solution for:
  - Air Quality Monitoring
  - Water Monitoring
  - Structural Health Monitoring
  - Health Monitoring
  - Agricultural Env. Monitoring
  - Energy Efficiency Monitoring
  - Mine Monitoring

### Client

ADVANTIC Sistemas y Servicios is an ICT company specialized in remote monitoring systems.

### Business Needs

To have an application that allows a user to gather, store and view the data arriving from a deployed wireless sensor network, and then send commands to specific nodes to generate specified reports.

### Our Role

Design and develop the solution using which local user will make use of all three components (app GUI, app core, serial forwarder) in the same machine.

### Solution Overview

The application consists of the following three components which are deeply interconnected and work in coordination with each other.

1. Serial Forwarder (SF #1, SF #2, SF #3)
2. Application Core
3. Application GUI

Web front is developed in PHP along with the socket application which interacts with Advantic's serial forwarder which gets the data from the node and updates the database.

### Highlights

Provides real time Sensing Capabilities anytime anywhere, for applications such as Water transport, Leakages detection, Environment monitoring system, Patient monitoring system/Infant monitoring system

