



**CapTemp, Lda**

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**Lusiaves Group**, leader in poultry production in Portugal, has a diversified activity, from reproduction chicken, passing through egg production and respective incubation and chick production, to production of broilers, open field chicken and turkeys, as well as slaughter and transformation. **Lusiaves** also counts with a chain of distribution and commerce of their products. An animal feed factory is also in the group which also valorizes and transforms animal sub-products.

**Lusiaves** intends to a reference in the poultry sector, and be recognized as a group which bets in innovation and continued research, in quality alimentary safety of their products.

As a solution for all the temperature control and various locations including the factory could be monitored remotely, it was solicited to **CAPTEMP** to implement a monitoring system, capable of matching the requirements of the October 1<sup>st</sup> ordinance 1129/2009 and EU regulation 37/2005.

Temperature monitoring system composed by:

1. Remote Server with administration.
  - Windows Server 2003 64
  - CapTemp Software SQL 4.0.0
  - Data Base PostgreSQL 9.3
  - CapTemp XML server (similar to OPC server)
  - Apache Server
  - CapTemp WEB
2. Equipment in each location
  - Temperature Sensors
  - POSEIDON 2250 Data Collector
  - PUSH XML Server
  - Ethernet Connection(VPN)



**Operation Principal:**

The information that the Poseidon 2250 collects, are periodically sent to the central server, and saves then in the data bank.

Through a safe connection, it is possible to access these files using a browser such as Chrome, Mozilla or IE.

The access to these files are controlled by an administration that defines the privileges of each user and each firm, guarantying, confidentiality of the data from one firm to the other.

**Conclusion:**

The project was finished within the defined patterns and at the moment counts with :

- 7 firms
- 4 administrators
- 22 users
- 17 Poseidon 2250
- 17 Push-XMLserver
- 187 sensors (forethought of 240)