WebSense

DEVELOPMENT OF A FACILITY MONITORING SYSTEM BY USING NEW GENERATION EQUIPMENT

Description

The system is suitable for measuring different parameters and for locating production equipment within a production site. The measured and collected data is published via internet on a portal developed for displaying the collected and processed data. The portal functions are accessible for authorized users. The location of the tracked equipment is displayed on a map integrated to the portal. So the portal users are able to control measured parameters concerning their facilities or production processes from anywhere.
The measured values can also be made accessible for the company's internal IT (e.g. ERP) system.

Benefits:

- It is easy to install and can be easily built in into existing buildings. There is no need of an expensive cabling and destruction caused by cabling. (this for example is very important in case of an ancient monument).
- The group of measured parameters can be defined very flexibly.
- Based on this new method the record of fixed assets can be set up which is up-to-date, precise and flexible compared to the solutions (based on manual data input) existing so far. All these facilitates a more effective asset management for the users (companies).
- These technologies reduce the living labour demand of the monitoring processes as well as the travelling needs and make possible the online and real-time monitoring and intervention. By using these systems the security of facilities and monitored processes will be improved.
- As a result of the project Regens improves its competence in the field of usage and integration of technologies which are quite new or hardly prevalent in Europe. Additionally Regens sets up connections with the research institutes working on this field

OBJECTIVE OF THE PROJECT

Advanced telemonitoring centre by using embedded systems and portal technology.

Targeted market segment:

- facility management companies
- production companies
- logistic centres

Technology background

- Wireless sensor networks
- Active RFID based RTLS (Real Time Location System)
- Passive RFID
- Oracle RDBMS
- C# technology based portal engine and application
- Mobile alarming system for PDAs
- GIS engine

Financing:

- 45 % EU + Hungarian Government
- 55% Regens

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