Project example

MRX in the pigsty

The equipped Lower Saxony pig breeding and fattening farm consists of several facilities. Besides the pig breeding, a biogas plant is operated, which produces methane, carbon dioxide, oxygen, nitrogen and other gases.

A video-radio system is used here, which fulfils the following tasks:

- The observation of farm animals for reasons of animal welfare and to facilitate the work
- Birth control in piglets
- Control of the animal population to detect foreign bodies in these areas
- The monitoring of machines and supply facilities
- Control of the biogas plant
- Transmission of telemetry data from feeding, ventilation, photovoltaics, generators etc.
- Fulfilment of requirements of insurance companies
- The possibility to use modern aids such as laptop and tablet

It was important for the farmer that the data was transmitted between the locations in encrypted form in order to prevent foreign intrusion. This was achieved by using AES256 coding.

The farm consists of two operating sites plus the farmer's residential/office building. An Internet connection (DSL) is available in the residential/office building. Several cameras were installed in the stables and on the outside areas. A central video server in the residential building stores the camera data for recording. Access to camera data and server is possible from the farmer's internal WLAN as well as from a remote location.

In the sow house controllable PTZ cameras are used to view all areas of the compartments. The farmer can control the PTZ cameras conveniently from his office or remotely via a mobile phone/tablet.

Both the construction and the operation of this video-radio system is considerably cheaper than conventional methods. Neither digging and laying work is necessary, nor are there any running costs for mobile radio or internet connection.

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