Agricultural Business Holding (ABH) Miratorg - Bryansk region, Russia

## Development of a fixed wireless network for ABH Miratorg, using InfiNet's SkyMAN R5000 solution

**Requirements**

- High-speed network
- A large number of channels, combined into a single network

**Solution**

- InfiLINK 2x2 PRO
- Mmx/5.300.2x200.2x28

**Customer Benefits**

- Provided the required bandwidth
- Organised full coverage zone
- A general network – 20 point-to-point channels, uniting 25 buildings

**ABH Miratorg** is one of the leading manufacturers and suppliers of meat in Russia. In 2010, with the support of the Government of the Russian Federation and the Ministry of Agriculture in Russia, Miratorg began construction of a modern farm in the Bryansk region which would be able to breed high yields of cattle.

The modern management of livestock requires strict control of all processes, and requires the latest technology to analyse large amounts of information.

However, practically all of the buildings on this new farm were far away from populated areas and required the use of satellite communication stations to send information back to the company's central office in the village of Aladino.

This became problematic because of the high overhead costs and low-bandwidth that the satellite network offered. Miratorg's management decided to build its own secure network on more reliable radio-based technology, WiMax. The company selected InfiNet's point-to-point InfiLINK 2x2 PRO to build the network.

In Miratorg's case, each building has its own autonomous water supply system, including a water tower and an area where the automation control system is located, along with the water distribution system.

InfiNet's equipment is installed on the water towers at heights between 12 and 25 metres. The water towers are linked to the administrative buildings by an Optical Fiber Transmission System (OFTS).

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Currently, there are 20 point-to-point channels, which link 25 of ABH Miratorg's buildings to a single network. All channels use InfiNet's Mmx/5.300.2x200.2x28 solutions. The minimum length of the interval between the antennas is 9.6km and the maximum is 25km.

Structurally, the whole radio network is divided into five separate fragments in seven districts of the Bryansk region. Each fragment is tied to the network through the existing OFTS. Eventually all the information arrives at the central site in Aladino.