

TELEOFIS and MegaFon Tested the Newest Device for Collecting and Transmitting Data Based on NB-IoT Technology

TELEOFIS and MegaFon tested an innovative low-cost solution for Water and Gas Measurement and Accounting based on NB-IoT Technology — TELEOFIS RTU102-NB1.

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TELEOFIS and MegaFon (one of the largest Russian mobile operators) with joint collaboration conducted a successful test of a newest device supporting NB-IoT network — **TELEOFIS RTU102-NB1**. The device collects the consumption data from water or gas meters and transmits it automatically to the database server Teleofis.net.

Narrowband Internet of Things (NB-IoT) is a new narrowband cellular radio technology, optimized to enable the Internet of Things (IoT) and standardized by the 3rd Generation Partnership Project (3GPP).



NB-IoT is a low-power wide area wireless network, that provides low-speed but reliable data transfer using narrow band of radio transmission within the allocated LTE or GSM range. The technology is specially designed for applications that need to communicate with small amounts of data over long periods of time. NB-IoT fulfills the main requirements for IoT networks: wide area coverage, low power consumption, support of a large number of connected devices, long battery life and low cost.

This new technology offers several important benefits over current alternatives:

- Network operates in licensed frequency bands that guarantees **transmission without interference**
- NB-IoT is fully integrated within the existing infrastructure and can be deployed by upgrading existing base stations. NB-IoT can co-exist with 2G, 3G, and 4G mobile networks.
- LTE NB-IoT modules in comparison with the other cellular modules have ultra-low power consumption, that enables devices to operate for up to ten years from one battery

RTU102-NB1 terminal is designed to collect and transmit data from water or gas meters. During the tests we checked network registration of RTU102-NB1 and data transmission to Teleofis.net. Metering data was successfully transferred to the server. The data is collected and processed by the server and is available to the users through the web interface and mobile app.

According to analysts, in the coming years the Internet-of-Things promises to be the next major technology in Machine-to-Machine communications. Market researchers anticipate a growing demand for NB-IoT applications in different fields such as smart metering (electricity, gas, water), safety monitoring, transport and logistics, smart grids, “smart” cities and “smart” buildings.

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