



The mobile IoT platform miotiq.com announces another world-unique feature, which saves up to 50 % of energy

The new version of [Miotiq.com](https://miotiq.com) with unique IoT management features can now save up to 50 % of energy

Prague, 7 May 2020 - [M2M Communication Holding](https://m2mcommunication.com) (M2MC), a global leader in the management of low-energy equipment communication for the NB-IoT and LTE-M networks, unveiled today a new version of its miotiq.com integration platform. It now supports the so-called non-IP transmission and is the first in the world to do so. Thanks to this technology, the consumption of IoT end devices using the miotiq.com service can be reduced by up to 50 percent!

The Internet of Things, Narrow Band IoT (NB-IoT), and 5G technology are the future. IoT sensors are rapidly increasing, especially in places with poorer accessibility, where they can work independently for several years without the need for recharging. Whether in water meter shaft, in remote fields, or as one of the components of smart cities, the possibilities to use them are growing dynamically. With this boom, the need to make the most out of their built-in batteries is a must.

M2MC, which has long focused on optimizing the operation of IoT networks, has now added another unique feature that dramatically expands the possibilities of deploying IoT sensors. In cooperation with leading developers of energy-saving devices and smart applications, the company integrated the non-IP communication option into its integration platform miotiq.com.

"With their capabilities, 5G networks are the ideal solution for LowPower IoT. After making non-IP communication available and the consequent fundamental reduction in energy consumption for data transmission, they no longer have equivalent competition. I am proud that together with our partners we were able to offer this new extension of IoT communication in a production environment available in more than 20 countries as the first in the world," says Karel Krčmář, CEO of M2MC.

Why is non-IP communication such a big deal?

Devices connected to the Internet of Things already last for months or even years without charging. Currently, most energy-saving IoT devices are connected via NB-IoT technology, operating on the frequencies of mobile operators. This guarantees higher security and better signal availability.

One of the key challenges of NB-IoT technology was the use of the IP protocol in the radio part between the device and the mobile network – IP and UDP header overhead. The energy consumption of data transmission also determines the overall battery life of the connected devices. Thanks to the use of non-



IP communication technology, individual sensors and other devices can communicate with the miotiq.com platform, and only the unique IMSI identifier is subsequently used to identify the device. This solution can save up to 50 % of the energy needed to transfer data.

The integration of non-IP communications now significantly reduces the power consumption of end-to-end IoT devices while retaining all of their existing benefits, such as typically excellent mobile signal availability or maximum security. Making non-IP communications available at miotiq.com and use of REST API interfaces now opens a huge opportunity for IoT sensor manufacturers and application developers, who now do not need to develop their own interface to communicate with the IoT network and can only focus on developing end-to-end solutions that can work independently in the field, twice as long as before. End customers, in turn, will gain significantly higher user comfort with IoT devices using non-IT communication, because the service interval for replacing the batteries in IoT sensors will be up to twice as long.

END

What is the Internet of Things?

The Internet of Things (IoT) allows various devices and appliances to communicate with each other or directly with a user by wirelessly transmitting data over mobile networks. These interconnected devices ensure the collection of large amounts of data that can be used in many different areas, such as industry, healthcare, meteorology, transport, intelligent electrical installation, etc.

What is Narrow-band?

The most recent network of the Internet of Things is called the Narrow-band (NB-IoT). In contrast to existing networks, NB-IoT is designed exclusively for data transmission. It allows users to connect any smart device, wherever it is, to the network. Data transfer is efficient and the battery in the device lasts for several years. The big advantage is the high availability of the signal and its reach even in places where other communication technology fails, such as buildings, underground or underwater. All end devices can be remotely controlled and set up using a simple application or website. Key benefits of Narrow-band networks are:

- High surface coverage.
- High signal transmission (across several walls, underground or underwater).
- Two-way communication (all terminal devices can be controlled and set up remotely).
- Long battery life (terminal devices last up to ten years without recharging).
- Data security (the network operates in the licensed bandwidth).
- Inexpensive equipment (such as sensors, modules and other measuring devices).



What is miotiq.com?

Miotiq.com is an integration platform that enables the data from sensors using mobile IoT networks (NB-IoT and LTE-M) to be delivered to specialized applications. Miotiq is the key connecting layer between the mobile operator's backend and databases or IoT hubs - for example Google, Microsoft Azure, AWS) or a variety of applications. It enables device management, data processing into various data paths (UDP packets, encapsulation into TCP / IP communication), billing and API for direct connection with applications.

About [M2M Communication Holding](http://www.m2mc.eu)

M2M Communication Holding operates from Central Europe with headquarters in Prague and serves clients all over Europe and the United States. M2MC is a pioneer in the development of NB-IoT communication platforms with a low maintenance cost. It continually expands the possibilities of data collection and availability to ensure an outstanding business environment for IoT / M2M solutions. Further information can be found at www.m2mc.eu.

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