

R&D Outsourcing

25 2023

Internet of Things, IoT, M2M

In 2022, companies and government agencies spent about 113.9 billion rubles on the implementation of solutions based on Internet of things and machine-to-machine interaction technologies (M2M and IoT), which is 6% more than a year earlier. This is evidenced by the data of the analytical agency Oneside, which were made public on February 21, 2023.

According to the results of the study, the volume of connections to the M2M platforms of mobile operators increased by 29% over the year to 14.3 million connections. At the same time, MTS provided 47% of the total volume (over the year, the increase in the subscriber base was 23%), and MegaFon - 30%

Analysts also noted that over the year, the Private LTE market (a dedicated wireless LTE network of an enterprise created within the same organization and isolated from public networks; it uses M2M and IoT technologies) grew by 20% to 1.5 billion rubles. Among the publicly announced projects, the largest number of dedicated commercial LTE networks was deployed by MTS - 12 networks, or 37% of all projects on the market. Another 21% was sold by MegaFon.

Among the industries in which Private LTE networks were deployed, 30% of projects were in the mining industry, 18% in transport, 15% in petrochemistry, 9% each in the context of all projects is occupied by the oil and gas sector and coal mining, 6% each by energy, engineering and energy, the report said. According to Oneside, in 2022, the number of connected IoT devices in Russia exceeded 70 million. The most common use cases for M2M and IoT technologies in 2022 were security systems, connected video surveillance cameras, intelligent transport systems, and smart water and water metering systems. energy resources.

According to the report, by the end of 2022, the total number of connected IoT devices in Russia in the B2B/B2G segments grew to 55.8 million units, of which 34.2 million worked in the networks of telecom operators.[1]

By the end of 2025, a quarter of all IoT devices in Russia will be connected via eSIM

On July 5, 2022, MTS PJSC shared the results of the IoT market research and identified the trends and industries that will most actively use the Internet of things in the next three years. According to MTS forecast, by the end of 2025, about 25% of all IoT devices in Russia will be connected via eSIM, by the end of 2022 this share will be only 7%.

The study is based on surveys conducted by MTS specialists of key market players, manufacturers and users of IoT platform solutions, as well as on analytical data aggregated using Big Data.

Most devices with eSIM will be metering devices ("smart meters") and connected cars. Also, the service will be in demand among IoT equipment manufacturers: the technology will allow devices to be tested in production and sold in various regions of Russia without replacing SIM cards.

In general, the global IoT market reached \$158 billion in 2021, the IoT market in Russia amounted to 148.5 billion rubles, according to analysts. (markets are assessed taking into account data transmission services, equipment and software).

According to the MTS forecast, the average annual growth rate of the IoT market in Russia will be 12% after a decline in 2022, and the market itself can grow to 208.5 billion rubles by 2026. The key factor determining the further development of the IoT/M2M market in Russia is the macroeconomic situation, which directly affects the demand for digital solutions from consumers in various industries.

If we consider revenue by industry, the leaders are energy / housing and communal services (30%), real estate (18%) and transport (16%). It is predicted that in 2025 these industries will also be leading: energy / housing and communal services (32%), real estate (27%), transport (12%).

The total number of smart metering devices for utility resources in Russia, according to MTS forecast, will grow to 39 million by 2025, every second apartment will be equipped with them. As of July 2022, the total number of smart meters installed in apartments and residential buildings in Russia is 5.7 million units, more than half of them are electricity meters. More than 98% of the total number of smart meters are individual metering devices. The market of new buildings occupies almost 75% of all newly connected resource management systems.

In addition to smart meters, smart speakers will show a sharp increase by 2025, from 3.5 million in 2021 to 10.5 million devices by 2025; as well as smart home devices - from 2.7 million in 2021 to 13.4 million devices by 2025.

Link to article: [Internet of Things, IoT, M2M](#)