

# ENABLING IOT SOLUTIONS FOR SMART CITIES

Tkachov V.M., Yeroshenko O.A., Huk A.S.  
Kharkiv National University of Radio Electronics, Kharkiv, Ukraine

Smart cities use IoT devices, such as connected sensors, lighting, and meters, to collect and analyze data [4]. Cities then use this data to improve infrastructure, utilities, and services, etc.

**The purpose of the report is** to analyze the development of the Internet of Things in the area of the smart city.

The creation of the concept of "Smart City" is associated with the need to ensure a modern quality of life of people soon through the use of innovative technologies, providing cost-effective, environmentally friendly, and safe use of urban systems of life.

A Smart City is an innovative city that introduces a set of technical solutions and organizational measures aimed at achieving the highest possible quality of resource management and service provision at present to create sustainable favorable conditions for living and staying, the business activity of the present and future generations. With smart sensor systems operating in real-time, information is collected and accumulated in data centers, which are subsequently processed and analyzed by the systems.

In practice, there are several main components of the Smart City: transport (control of traffic flows and pavement quality; infrastructure of charging stations for electric cars; software and hardware system for managing traffic and public transport [2]), security (systems of video surveillance, video fixing, and physical security of infrastructure facilities; systems to ensure the call of emergency services; warning systems; hardware-software security systems management complex); education and healthcare: distance learning, mechanisms of notification about the implementation of certain programs, electronic textbooks; systems of electronic appointment to the doctor, an electronic database of patients and their case histories, solutions for communication of medical specialists).

The potential of smart cities is almost limitless, and their growth should only accelerate in the coming years. But this is not the only area that the IoT will fundamentally change soon.

## References

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