

## Merusoft – is a synergy of technologies and software solutions

For offices, business centers, and industrial enterprises.

TECHNOLOGIES WE USE

**RTLS И IOT**

Program solutions for offices, business centers, and industrial enterprises are delivered according to on-Premises or SaaS schemes.



*Our own investments into the development of program solutions amount to 300 000 USD. 2016 is the year when the earliest stage of development took place.*



Since 2020 the company has become a resident of Skolkovo with a legal entity. Merusoft LTD has been a resident of Skolkovo since 2020. The company provides developing solutions focused on using indoor positioning technology, workplace safety, and office space management systems.

TECHNOLOGICAL STACK OF

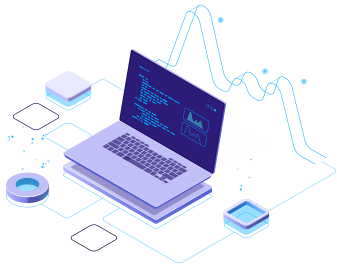
## SOFTWARE SOLUTIONS FROM MERUSOFT

Back-end Java, Front-end: Angular IOS and Android for mobile apps of a CV (computer vision) system on the platform Nvidia TensorRT.

IoT technologies we use: LoRa, NboT, RFID, iBEACON.



**The company staff consists of specialists with a collective experience of more than 120 years. Our experts have deep knowledge in the following fields:**



Information security



JAVA-based development



IOS and Android



Radio electronics and circuit design



CV (computer vision) on the platform NVIDIA TensorRT

Network protocols and technologies that are widely used in IoT solutions (LoRa, NboT, Zigbee, RFID, iBEACON, UWB).





## Merusoft Smart Office – office space management system

All functions of a modern office are available in one application now. We have combined all demanded technologies for the office in one mobile app.

Make a reservation of the workplace premise or just a meeting room, order a service, a visitor's (courtesy) pass, use a cell phone for mobile control access, indoor navigation - all these functions are available in your smartphone. All mentioned above features provide comfortable conditions for employees and guests of the office.



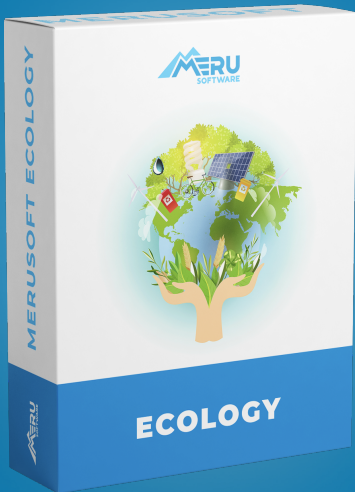
*We spend more than 80% of our time indoors. And we work at least 8 hours a day.*

*60% of companies consider options to reduce costs for office space. At least 50% of business centers believe that it is possible to increase corporate profitability with the help of IT technologies.*

*90% of highly qualified employees consider comfortable conditions in the office and business center as an important competitive advantage of the employer.*

We provide a ready-to-implementation system for business centers and companies with large offices. As in 2020, most companies' employees operate remotely, working from home has become a trend. The offices are visited only if necessary. The size of the leased area in proportion to the number of employees decreases as result. Under these conditions, the office-based employees need an efficient tool to manage office premises conveniently and effectively.

Comfortable office work is possible with such devices as humidity and temperature sensors as well as lighting and ventilation unit control. Extensive API integration with the installed building systems makes it possible to manage complex engineering systems from a smartphone, differentiating access to the desired functions.



## Environmental monitoring of maximum permitted emissions

We design systems of automatic continuous control of harmful emissions for industrial enterprises of the first category. These systems meet the legislative requirements of the Russian Federation FZ-219 "On environmental protection" and correspond to the industry information and technical reference books on the best available technologies (BAT).

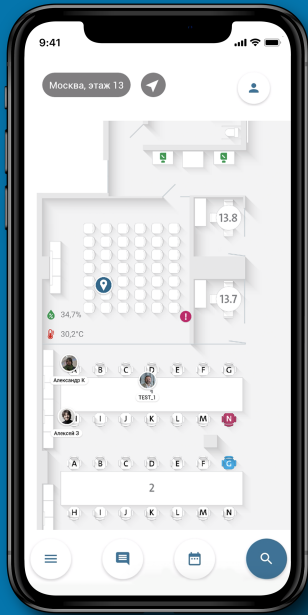
*Certificate of computer program  
registration N 2018665176 from  
November 21, 2018.*



We remotely collect data from technical means of environmental monitoring, fixed air control stations, mobile systems of pollutant emissions accounting.

We analyze current rates and averaged values, compare with maximum permitted emissions (MPE), and transfer the data to the control system and the system for calculating the distribution of impurities to model negative effects.

We form reports and transfer the data to supervision and monitoring agencies. Accounting data for measuring equipment includes: passport, verification, routine (scheduled) maintenance.



## Merusoft Tracking – indoor positioning system RTLS

Indoor positioning systems are in demand while developing solutions for labor security, social distance, organizing working process, tracking load transition in warehouses.

Depending on the accuracy of defining location we choose the technology and algorithm of positioning. Merusoft Tracking allows the use of technologies such as RFID, iBeacon, UWB. We use Quuppa algorithms with iBeacon technology for precise positioning systems.



*Certificate of computer program registration N 2019617917 from June 24.*

Typical examples: people flow control between allowed and prohibited areas at the territory of the plant, determination of time that person spent in a certain area, people contact control, mapping routes between indoor objects.

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# Merusoft Biometrics – access control with a body temperature check



New time means new requirements. Russian Federation Legislation demands to measure employees' body temperature and register it.

The mobile application for a device on access card reading and temperature sensor manages the tourniquet of diagnostics and facilities of the monitoring and control system. Besides, it collects measurement data on a local device. If necessary it sends a consolidated maintenance register to the server or to an executive in charge via email.

## Merusoft Biometrics has an open API for integration with diagnostics monitoring and control systems.



The process of temperature check can be flexibly adapted to your office operation in combination with SmartOffice modules. For example, the system can be used for temperature control during the day and make a report. The management of temperature check devices is undertaken from Merusoft Biometrics server which is installed locally and operates from the IT cloud.

### Our clients:



### Our partners:

