## FLEET MANAGEMENT SYSTEM AUXIL





#### **TECHNICAL COMPONENTS OF THE SOLUTION**

AUXIL uses a client-server architecture



- The dispatcher's client application is used in the office by the supervising dispatcher
- The operator's client application is installed on an industrial onboard computer, which is located in the cabin of each unit

Data exchange between (Solution) the equipment and the server

occurs via a wireless network (WiFi, LTE, 5G).

The software within the system has an open-source code, which makes the product more flexible and allows for independent maintenance and development of the system.

**OFFICE APPLICATION** 



The software on the server and onboard computers uses the same technology stack, which facilitates system support.

- Operating system latest supported Linux distributives, ubuntu, debian, Rocky, etc.
- PostgreSQL database
- Backend Python
- Front end web JS with a minimized number of dependencies

# ONBOARD COMPUTER



Dispatch center

- The software can be installed on any industrial computer. However, we recommend using an IP65rated onboard computer equipped with an external GPS antenna and communication capabilities. The software can be installed on computers that meet the following requirements:
- CPU architecture x86-64, Intel Atom, i3, i5, i7, Celeron
- 2GB RAM +
- 32GB HDD +
- Interfaces (communication with equipment): USB at least 2 ports, RS232/485 2 ports, CAN/J1939 – 1 port
- Interfaces (communication with server): ethernet, WiFi, LTE
- Bluetooth module

![](_page_1_Picture_0.jpeg)

## **OPTIONS FOR THE AUXIL EQUIPMENT COMPOSITION**

![](_page_1_Picture_2.jpeg)

- To obtain data on the operation of machine components and their usage in work cycles, it is possible to connect the machines' electronic systems to the AUXIL hardware
- Data from the controllers of Komatsu, Cat, BelAZ, Epiroc, Sandvik, and others is available

#### **AUXIL ARCHITECTURE**

![](_page_2_Picture_1.jpeg)

![](_page_2_Figure_2.jpeg)

#### **MINING ART**

- **Availability** We use hardware in our solutions that are openly available on the market, which reduces the overall project cost and simplifies subsequent maintenance.
- **Reliability** All equipment comes with a manufacturer's 1-2 years warranty. Our software meets 99.9% SLA requirements.
- **Flexibility** Our software is open to modifications tailored to your business needs. You can make adjustments independently.
- **Transparency** Forget about subscription fees for technical support and services. You pay for the provided services only.
- **Experience** We have over 10 years of expertise, and we deliver results, not just supply a system.