



OBU Application

The On-Board Unit (OBU) software is designed for efficient and safe transportation. Built on Linux, it gives real-time information on routes, schedules, and the vehicle location while providing a seamless communication interface between drivers and dispatchers. The OBU App also supports remote updates, parameter configuration management, and transaction management for fleet monitoring. The OBU software drives security to “top priority” with its common WLAN security and authentication features, APN capabilities, and predefined alarm sending for emergencies.

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KEY FEATURES

GENERAL SOFTWARE

- Linux operating system
- Driver log-in/log-out management
- Manual or automatic trip initiation
- Display of route, trip, next bus stop, and schedule information
- Short message system
- Communication support for on-board devices (validator, camera, PIS, APC, CAN network, etc.)
- Remote software updates
- Internal database support
- Visual and aural driver warnings

COMMUNICATION

- Initialization and control of all on-board devices
- TCP routing capability
- Management of traffic from multiple on-board devices
- Traffic management on the cellular network
- Advanced communication protocol support (TCP, MQTT, HTTPS, TLS, UDP, CAN, WebSocket, etc.)
- Kentkart Terminal Management System (IoT) support

TRANSACTION

- Event data generation (trip start-end, stop in-out, driver log in-out, etc.)
- Vehicle position, speed, and direction generation
- Optional CAN data generation (fuel consumption, engine status, temperature, distance, etc.)
- Log generation

PARAMETER AND CONFIGURATION

- Remote configuration file updates
- Parameter file downloads (route, trip, next bus stop, schedules, alarm, etc.)
- On-board device status reporting

SECURITY

- Support for common WLAN security and authentication features
- APN capabilities incorporation

ALARM

- Predefined alarm sending (violence, fire, ambulance, police, etc.)
- Alarm generation (route violation, schedule violation, late departure, early arrival, etc.)

