

TERMS OF REFERENCE (TOR)

for the development of software (Application)
for **CLASSO Mobile Charge**
2025/ 2026



*for enabling payment of charging sessions by
electric vehicle and electric truck users
at MIDA/China charging stations (120 kW and
600 kW)*

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for enabling payment of charging sessions by electric vehicle and electric truck users
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1. General Information

Project Name:

Development of software (Application) for cashless payment of charging sessions by electric vehicle and electric truck users at MIDA/China charging stations with capacities of 120 kW and 600 kW.

Client:

CLASSO Mobile Charge (Georgia).

Contractor:

[Specify developer/contractor in Georgia].

Location of Implementation:

Territory of Georgia (with the possibility of subsequent scaling to CIS and EU countries).

Development Objective:

To create a unified software platform (integrated system) that provides:

- payment of charging sessions by users;
- interaction with POS terminals, mobile applications, and NFC systems;
- integration with OCPP 1.6 / 2.0.1 protocol and the operator's internal billing system.

2. Regulatory Framework and Standards

The development, implementation, and operation of the Application must comply with:

Georgian Law "On Technical Regulation" (No. 1736-IIc, 2005);
Subordinate acts of Georgia on mandatory conformity

assessment;

Technical regulations of Georgia regarding:

electrical safety,

energy efficiency,

fire safety;

EU standards (CE certification);

Requirements of the National Bank of Georgia regarding
acceptance of cashless payments.

3. Functional Requirements

3.1. General Functions of the Application

The Application must provide:

- user authorization (via QR code, client card, or phone number);
- selection of charging station and type of charging connector;
- display of charging parameters (battery status in real time, battery power, planned charging time, cost in local currency and USD);
- selection of payment method;
- start and stop of charging sessions;
- automatic generation of receipts and reports in the operator's system;
- collection of statistics and analytics in real time.

3.2. Supported Payment Methods

The Application and/or terminal must support the following cashless payment methods:

- bank cards (Visa, MasterCard, and others approved by the NBG);
- contactless payments (NFC, Google Pay, Apple Pay, Samsung Pay);

- QR codes and mobile applications (including the operator's internal app);
- POS terminals (built-in or external, certified by the client);
- offline payment mode when the server is temporarily unavailable (with subsequent synchronization of transactions).

3.3. Hardware and Integration Requirements

For 120 kW and 600 kW stations:

- availability of an autonomous payment module (POS terminal) approved by the client, or a touchscreen with the possibility of integration with external POS systems and mobile applications;
- support for OCPP 1.6 / 2.0.1 protocols for integration with external billing and management systems;
- autonomous transaction processing at the POS terminal level, independently of the central system;
- recording of each transaction with the possibility of exporting data to the operator's accounting system;
- real-time reporting and analytics (usage, status, station availability, energy consumption, payment amounts, etc.).

3.4. User Interface and Experience (UI/UX)

The Application must be adapted:

- for touchscreen use on the charging station (kiosk interface);
- for mobile applications (Android, iOS);
- for web version (user personal account).

The interface must be:

- multilingual (Russian, English, Georgian, Azerbaijani, Kazakh, Uzbek, Kyrgyz);
- intuitive and ergonomic;
- optimized for touch control (large buttons, simple navigation);
- capable of displaying receipts, payment history, and current user balance.

4. Security and Data Protection

- The Application must comply with PCI DSS standards for payment data processing;
- All transactions must be encrypted using SSL/TLS 1.3 protocols;
- Storage of personal data must comply with the Georgian Law "On Personal Data Protection";
- Possibility of remote blocking or updating of terminals.

5. Reporting and Analytics

The system must provide:

collection and transmission of data on each charging session;
reporting for each station (time, energy, amount);
generation of daily, weekly, and monthly reports;
data export in CSV, XLSX, PDF formats;
integration capability with the operator's ERP and accounting systems.

6. Technical Infrastructure Requirements

- Server side — cloud or hybrid solution, located in a data center certified under ISO/IEC 27001;
- Use of API interfaces for communication with equipment via OCPP protocol;
- Data backup at least once per day;
- Support for scalability as the number of stations and users increases.

7. Project Implementation Stages

Technical design and architecture approval – up to 10 calendar days.

Development and testing of functionality – up to 30 calendar days.

Integration with equipment (120 kW and 600 kW) – up to 10 calendar days.

Pilot operation (Tbilisi, 2 stations) – up to 30 calendar days.

Full commissioning – up to 60 calendar days from the date of signing the TOR.

8. Acceptance and Certification

- The Application and equipment must be certified in accordance with Georgian legislation;
- An Acceptance Report is drawn up after testing with the participation of the Client's representatives;
- Acceptance is carried out after verifying all functions, including payment, reporting, and integration with POS terminals.

9. Other Provisions

- All rights to the software belong to the Client;
- Further updates and maintenance are carried out under a separate technical support agreement;
- Working languages of the project: Russian, English, Georgian, Azerbaijani, Kazakh, Uzbek, Kyrgyz.



Russian,
English,
Georgian,
Azerbaijani,
Kazakh,
Uzbek,
Kyrgyz

CLASSO MOBILE CHARGE

(SEG PROGRAM)



**Start
Charge**



**Stop
Charge**



Payment



History

CLASSO MOBILE CHARGE

(SEG PROGRAM)



**Start
Charge**



**Stop
Charge**



Payment



History



Rent



CLASSO



Market

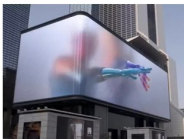
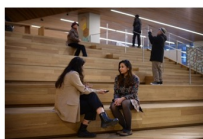
Fair

Takeaway goods

3 PL Center

Warehouse

Refrigerated warehouse



- *Start Charging* — начать зарядку
- *Stop Charge* — предназначена для **прекращения процесса зарядки** электромобиля.
- *Payment* — Оплата
- Charging history at CLASSO Mobile Charge stations — История зарядок на станциях **CLASSO Mobile Charge**

