



LOKI Pro

Tesla Package 1.0.9

The Professional's Choice for Tesla Diagnostics and Service

LOKI Diagnostic scanner



LOKI Diagnostic scanner

中国总部 (China HQ)



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LOKI Pro

Telsa Package 1.0.9

The main differences from the old LOKI at this time are:

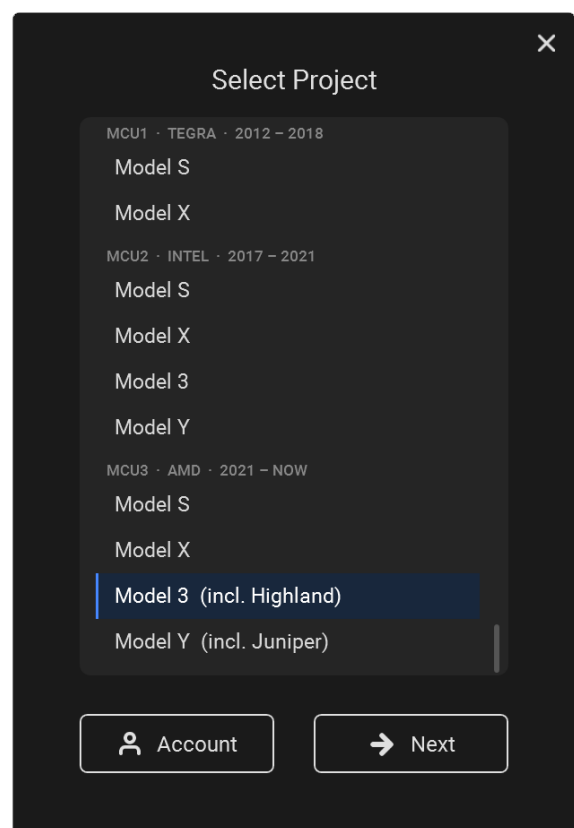
1. Convenient USB connection between the module and the PC. This ensures maximum connection stability and frees up the PC's Wi-Fi for internet access.
2. The new module provides two 1000BASE-T1 interfaces, CAN and CAN-FD buses, and an Ethernet port. There is no longer any need to buy media converters, run extra wiring, or build custom cables. This speeds up the work and reduces the error rate.
3. The new hardware lets you capture data from all the CAN buses required for in-depth troubleshooting. The new software lets you build custom dashboards for each system and plot graphs for any selected signals.
4. The software was developed from scratch, and most operations are automated. This speeds up the work and makes it easier to get started with new tasks.
5. A new feature generates PDF reports on the condition of a vehicle and its systems, with customizable company information. These reports are useful to car sellers and buyers for assessing a vehicle's condition, and to service centers for their records.
6. Support for a broader range of functions, such as Secured AMD.

Cars supported in this version:

- **Model 3 Intel 2017-2021**
- **Model Y Intel 2019-2021**
- **Model 3 AMD 2021-2024**
- **Model Y AMD 2021-2025**
- **Model 3 Highland 2024- Now**
- **Model Y Juniper 2025- Now**
- **Model S AMD 2021- Now**
- **Model X AMD 2021- Now**

Car models not supported in this version (we are still testing these models; they will be available in the next version):

- **Model S Tegra 2012-2018**
- **Model X Tegra 2016-2018**
- **Model S Intel 2018-2021**
- **Model X Intel 2018-2021**



Software Capabilities and Their Applications

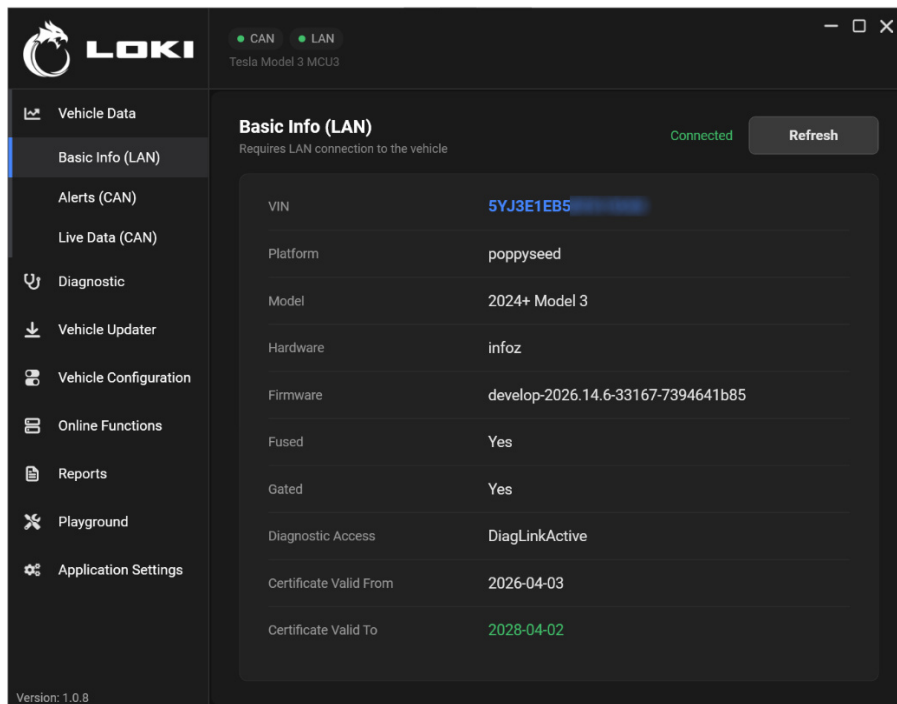
1. **Diagnostics.** Identifies vehicle malfunctions and checks the condition of all systems.

LOKI Pro diagnostic features:

- 1.1. **Basic Info.** Provides basic information about the vehicle.

For example:

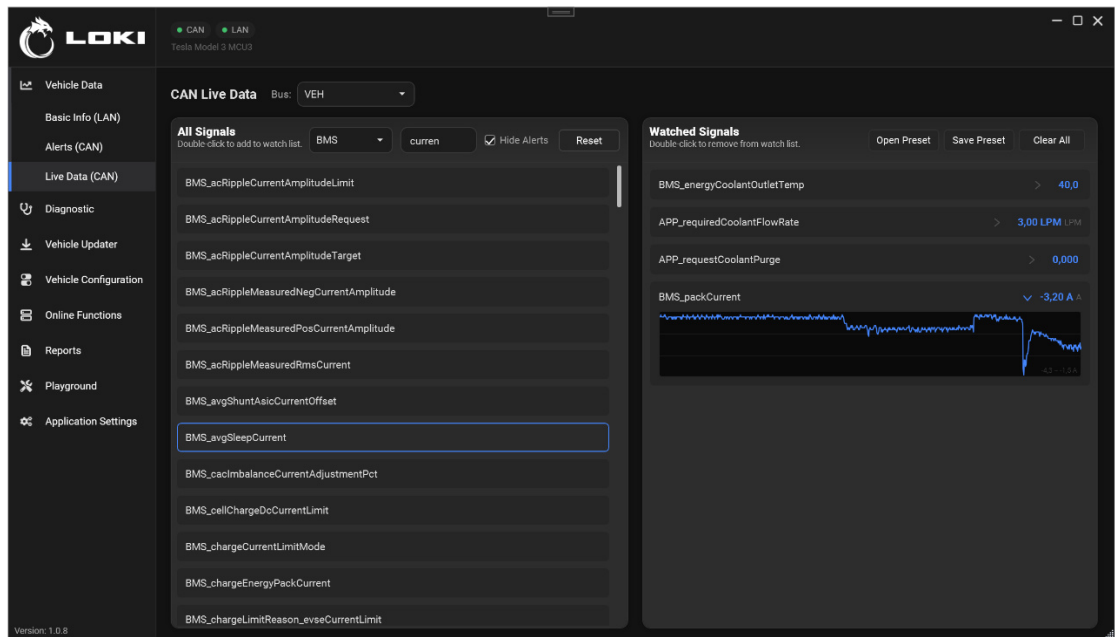
- Validity period of the MCU certificates - required for the mobile app to function and to receive updates.
- Vehicle software version
- VIN
- Vehicle Type



- 1.2. **Live Data (CAN).** Allows you to analyze real-time data from the vehicle across all systems. Used to diagnose problems.

For example, with Live Data you can check:

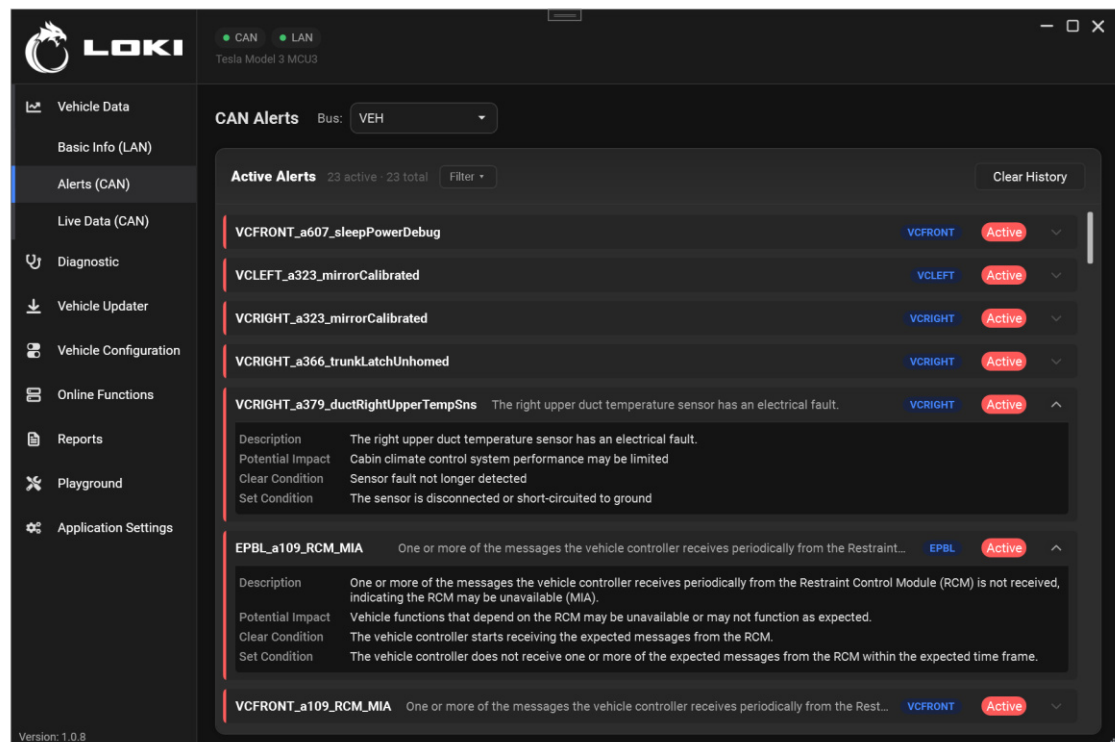
- Insulation resistance of the high-voltage system
- Steering rack / steering column angles for proper installation
- Currents and voltages across all units
- And much more



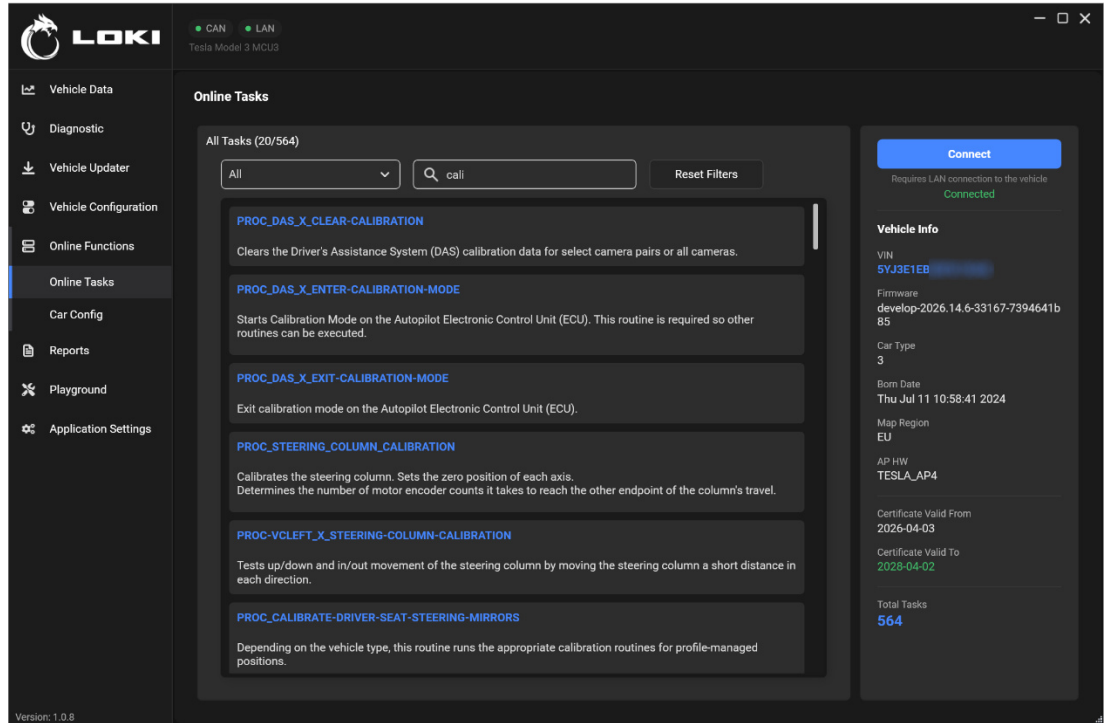
Live Data provides access to approximately 10,000 signals from all of the vehicle's systems. For convenience, you can filter signals by name or module, and each signal is displayed as a graph.

A preset feature is also available, so users can save their selected signals for quick access later..

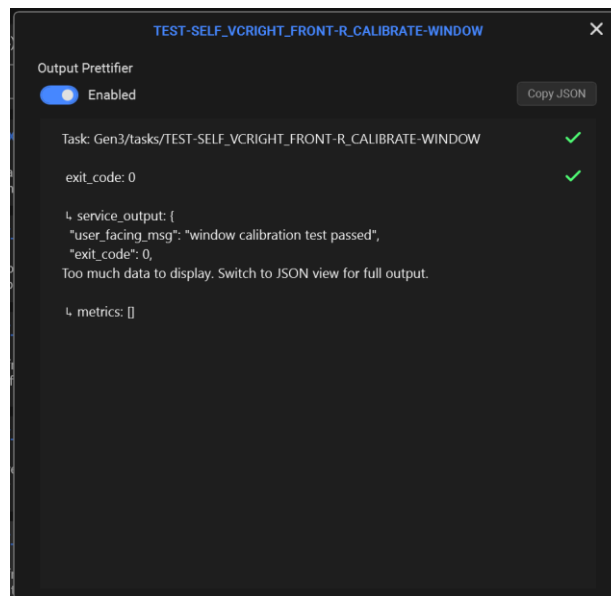
- 1.3. **Alerts (CAN).** Allows you to read and decode vehicle errors via the CAN bus. Suitable for diagnosing vehicles when Service Mode or Online Functions are not available.



- 1.4. **Online Tasks.** A full-featured equivalent of Toolbox 3. Allows you to run vehicle diagnostic tasks over a LAN connection. With Online Tasks, you can read fault codes from the vehicle; run tests, calibrations, and adaptations for various systems; reinstall vehicle software when replacing components; and much more. For convenience, diagnostic tasks can be filtered by name or system.



After running a task, you receive a clear summary of the results.



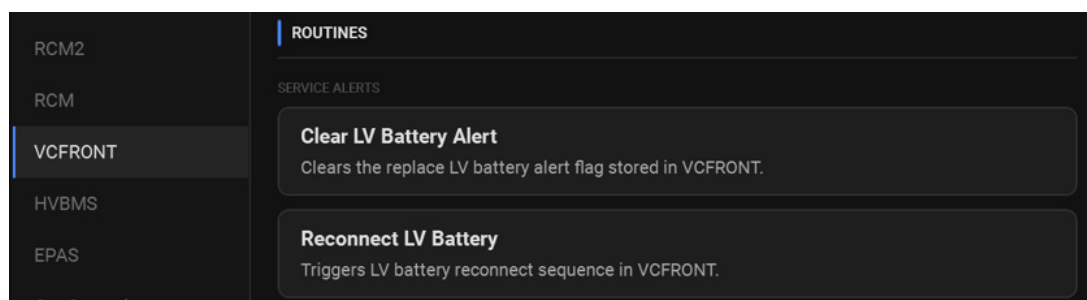
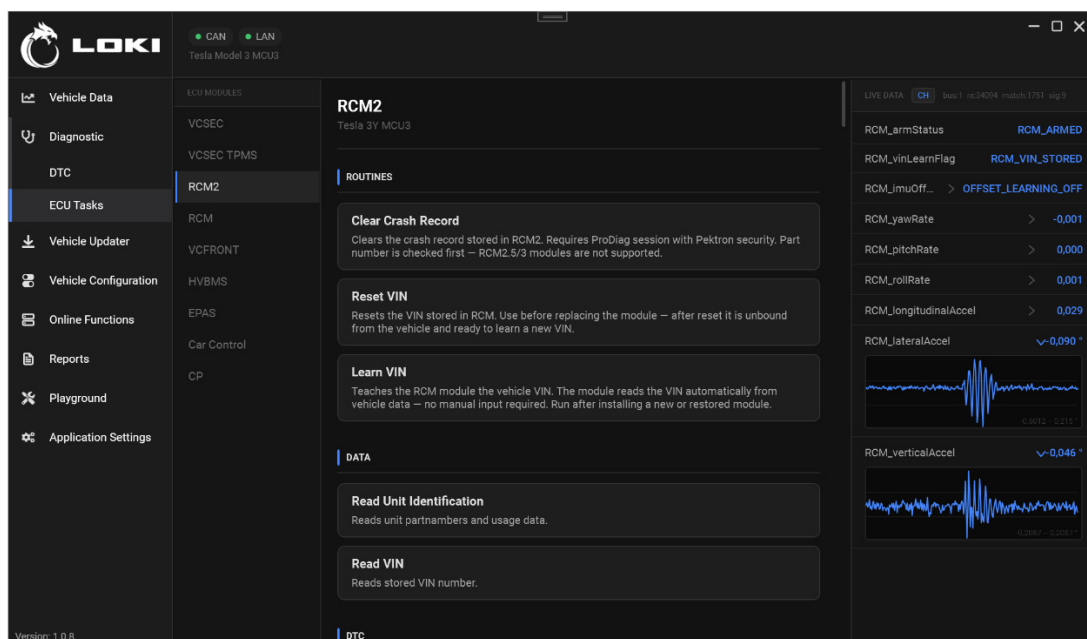
Depending on the vehicle type and software version, the number of diagnostic tasks may vary. There are usually around 600.

2. Car Repair After an Accident.

Allows you to reset a crash event in the control units to restore their functionality.

LOKI Pro features for vehicle restoration after an accident:

- 2.1. **Clearing the crash record via the CAN bus from the SDM/RCM/RCM2 units** - except the RCM2 1512876-00-E unit, for which a dedicated cable will be released later. Pairing functions for airbag modules are also available (calibration, VIN edit, and system configuration).
- 2.2. **Clearing the crash record via the CAN Bus from the TAS unit.**
- 2.3. **Clearing the crash record via the CAN Bus from the VCFRONT units** (alert A192).



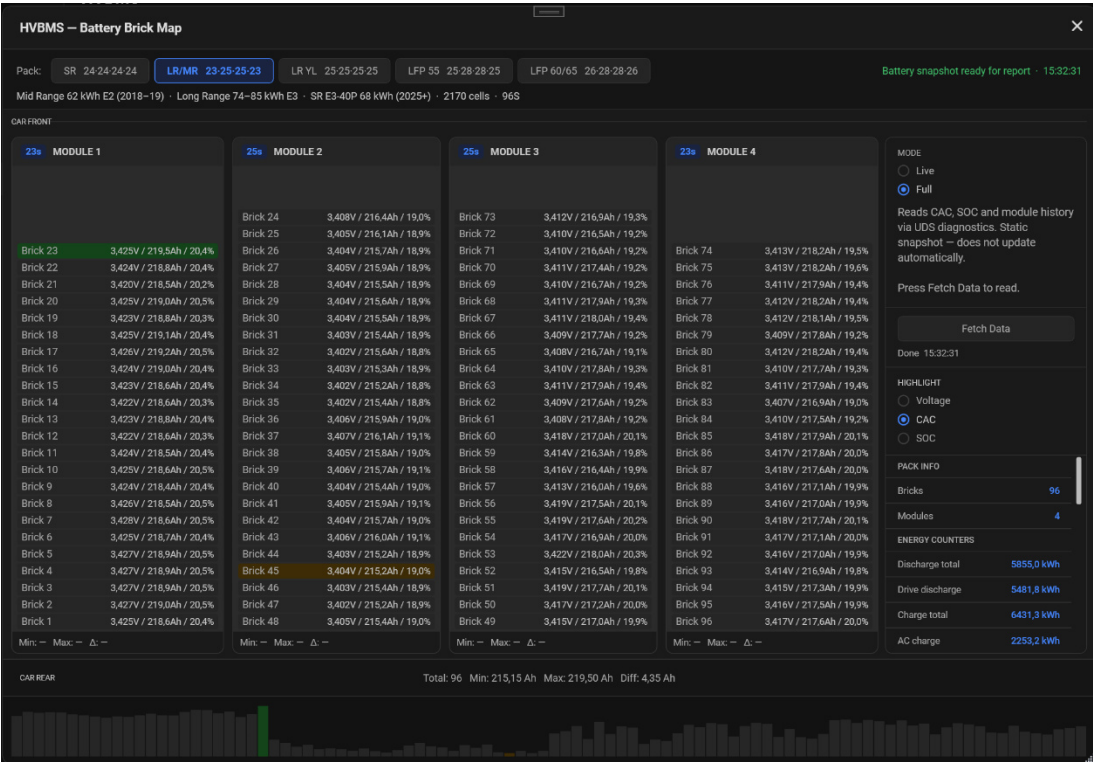
3. Checking the Status of the HV Battery.

Allows you to analyze the status of each module in the battery.

LOKI Pro features for checking HV battery status:

- 3.1. **Voltage monitoring** for each brick, to analyze voltage variation and battery wear. Real-time data is available to check the cells under load.
- 3.2. **Capacity monitoring** for each brick. Allows you to estimate the remaining capacity in each brick and identify worn-out modules.
- 3.3. **SOC monitoring** for each brick. Required for further analysis of battery imbalance.
- 3.4. **Viewing the manufacturing date and usage data of each module.** Used to determine whether any modules need replacing.

For convenience, the software automatically detects the battery type and displays the data as individual modules and bar charts. The data can also be saved as a PDF report.

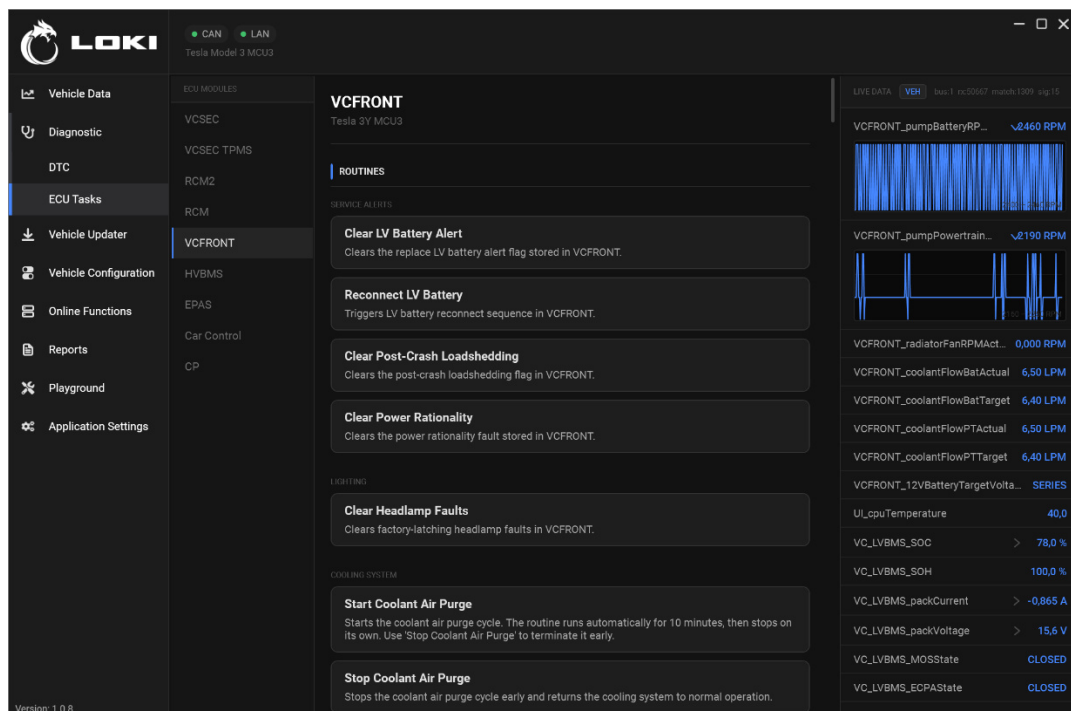


4. Service Procedures for CAN Units.

Allows you to run service procedures for all control units via the CAN bus.

LOKI Pro features for service procedures:

- 4.1. **Changing the VIN on control modules.** Used when replacing a control module - for example, a VCSEC / BDY / ESP / RCM module taken from another vehicle.
- 4.2. **Flushing the cooling and air-conditioning systems.** Used when refilling the cooling system or replacing its components.



4.3. Calibration of Vehicle Components.

For example:

- Steering rack calibration reset
- CAC/SOC calibration reset for the HV battery (on M3/Y and S/X AMD models prior to the 2025 firmware; for later models, use Service Mode Plus or Online Tasks)
- Charging port door calibration
- IMU sensor calibration
- Window calibration
- Steering column calibration
- Seat position calibration

4.4. Resetting Service Errors.

Some error codes in the vehicle do not clear automatically once the problem is resolved and must be reset manually.

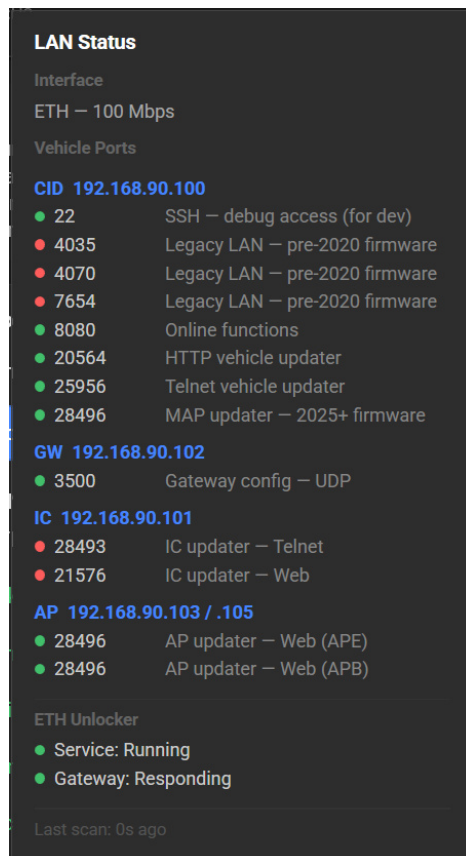
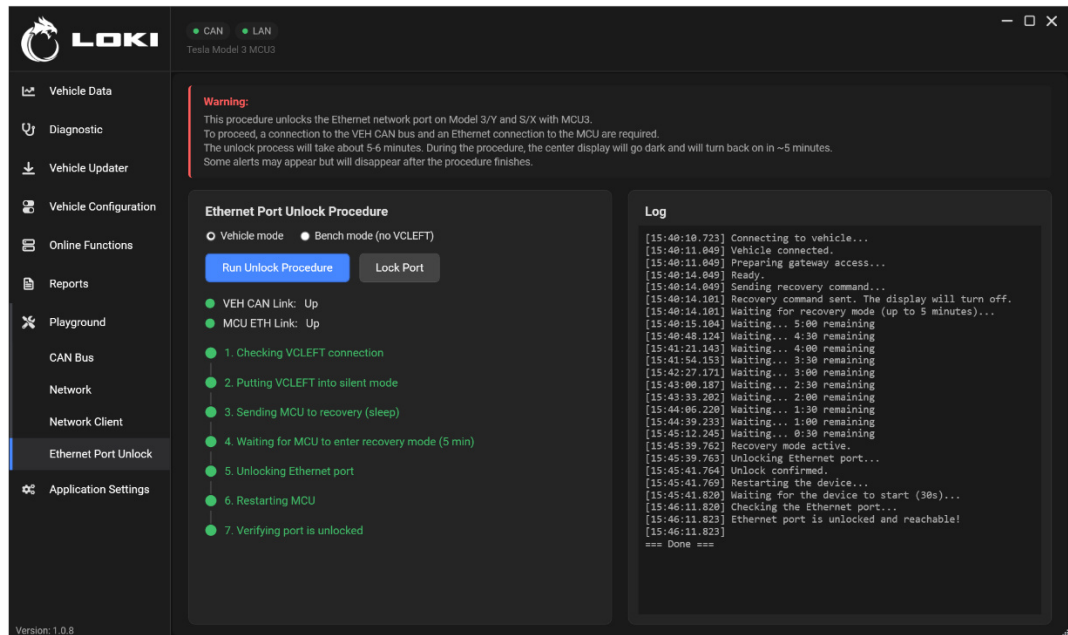
For example:

- Reset the flood alert in the HV battery
- Reset the VSH fault in the HV battery
- Reset insulation faults after resolving the issue in the HV system
- Reset the overtorque counter in the DI
- Reset the gate driver counter in the DI
- Reset all service alerts in Model S/X Tegra/Intel batteries

5. Tasks that do not fall into the previous categories:

5.1. Enabling Service Mode via CAN.

5.2. Unlocking the Ethernet port on Model 3/Y Intel/AMD and Model S/X AMD.



5.3. Opening the hood, trunk, or glove compartment via the CAN bus.

6. Changing the Vehicle configuration.

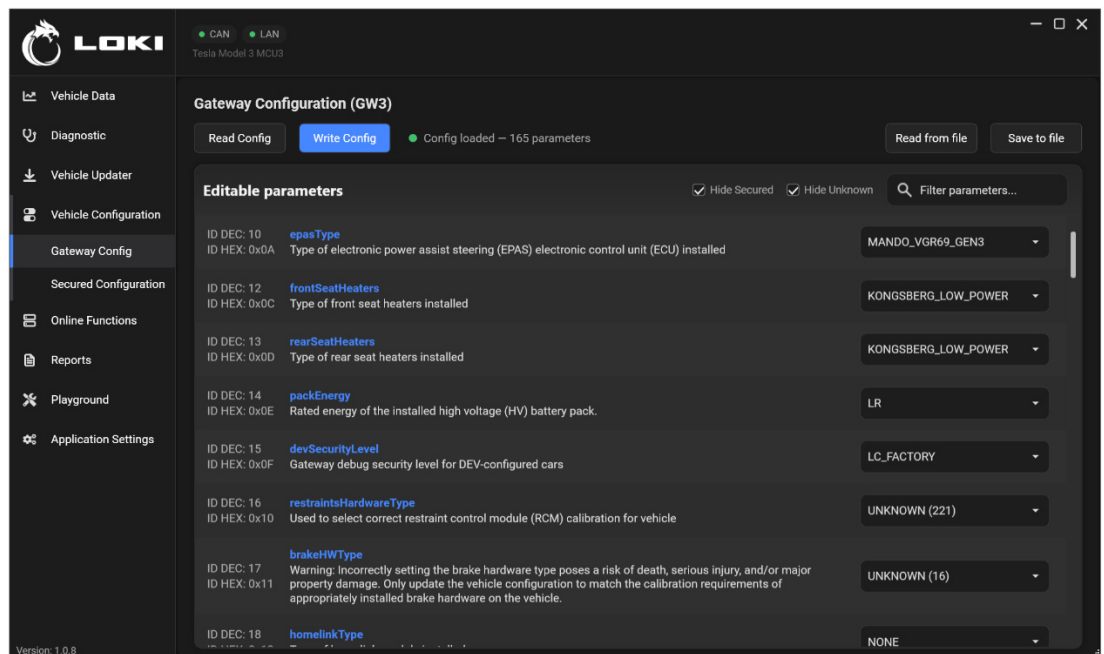
Allows you to enable disabled features, change component types when replacing them, and modify the vehicle's configuration.

LOKI Pro features for changing the vehicle configuration:

- 6.1. **Standard Configuration.** Used to change the gateway configuration when the Ethernet port is unlocked or the MCU is in recovery mode. About 100 parameters with descriptions are available.

For example:

- Map Region
- Headlamp Type
- Fog lights
- Tow hook
- And much more



- 6.2. **Online Standard Configuration.** Allows you to edit the same settings as in section 6.1, but over the diagnostic Ethernet, without unlocking the port. You can easily change all available **non-secured** parameters and automatically configure the vehicle when replacing the battery or motor with a different type.

7. **Vehicle Updater.** Required to install update files on the vehicle and run the redeployment procedure to integrate new modules.

What's Coming in Future Versions:

- New supported vehicles:
 - **Model S Tegra 2012-2018**
 - **Model X Tegra 2016-2018**
 - **Model S Intel 2018-2021**
 - **Model X Intel 2018-2021**
- Key learning on Juniper\Highland without certificates
- Key learning for Model S\X\3\Y
- IMMO Learning
- Secured 3\Y\S\X Intel\AMD
- Complete translations of the entire interface

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