

## EUC World 2.30.0 Release Notes

Pending release. Estimated release date: 25 January 2023

### Changes and fixes:

1. Firmware updates in Begode and Veteran wheels.
2. Improved firmware updates in King Song wheels.
3. Load GPX file as a planned route, so EUC World can help you to keep on track.
4. Charging controller now supports certain Shelly devices.
5. Various fixes and improvements.

## EUC World 2.28.0 Release Notes

Release date: 28 December 2022

### Changes and fixes:

1. Safety margin calculation algorithm can now be calibrated.
2. Improved support for Begode and King Song wheels.
3. Fixed problem with inverted current readout in Sherman S.
4. Various other improvements and fixes.

## EUC World 2.26.0 Release Notes

Release date: 13 December 2022

### Changes and fixes:

1. Added safety margin indicator on main screen.
2. Added support for custom firmware in Begode wheels.
3. Improved support for Begode and Veteran wheels.
4. Fixed problem with AVAS caused app to crash on Android 12+.
5. Various other improvements and fixes.

## EUC World 2.24.0 Release Notes

Release date: 8 December 2022

### Changes and fixes:

1. Added deceleration (braking) sound for AVAS.
2. Added support for Veteran Sherman S.
3. Improved support for Veteran & Begode wheels.
4. Optimized battery algorithm for Begode wheels.
5. Fixed problem with most recent CSV log not synchronized with EUC World account.
6. Fixed wrong distance displayed for some Begode wheels.
7. Various other improvements and fixes.
8. Compliant with latest Google Play API Policies.

## EUC World 2.22.0 Release Notes

Release date: 12 November 2022

### Changes and fixes:

1. Added support for new Begode wheels.
2. Improved optimized battery level algorithm for Begode wheels.
3. Tour recording can be started and finished from main screen.
4. Various improvements and fixes.

## EUC World 2.20.0 Release Notes

Release date: 3 August 2022

### Changes and fixes:

1. Improved support for Inmotion V11.
2. 2nd alarm can be set as prealarm.
3. Added charging time parameter (only if supported by the wheel).
4. HDR mode for in-app camera (only if supported by the phone).
5. Paused tour won't be automatically finished on wheel disconnect.
6. Fixed Ninebot One A1/S2 BMS support.
7. Various improvements and fixes.

## EUC World 2.18.1 Release Notes

Release date: 13 June 2022

### Changes and fixes:

1. Added support for Begode "imperial" firmware versions.
2. Added safety notice for Inmotion V11 with firmware older than 1.4.15.
3. Fixed: horn was not working in V11 with newest firmware.
4. Various improvements and fixes.

## EUC World 2.18.0 Release Notes

Release date: 31 May 2022

### Changes and fixes:

1. Added support for Begode Master.
2. Added support for Veteran Sherman Max.
3. Added undervoltage alarm (will activate when battery voltage drops to or below 2.9V/cell).
4. Improved support for King Song S20/S22.
5. Improved support for Inmotion V11 with 1.4+ firmware.
6. Standard battery level algorithm in Gotway/Begode now gives values similar to Begode app.
7. Standard battery level algorithm is now default for all wheels.
8. Various improvements and fixes.

## EUC World 2.16.1 Release Notes

Release date: 28 February 2022

#### Changes and fixes:

1. Added initial support for King Song S20.
2. Changes in app localization.
3. Other improvements and fixes.

## EUC World 2.16.0 Release Notes

Release date: 21 February 2022

#### Changes and fixes:

1. Added initial support for Inmotion V11 1.4.0 firmware.
2. Periodic time speech message.
3. Improved support for new Begode wheels.
4. Various other improvements and fixes.

## EUC World 2.14.2 Release Notes

Release date: 24 January 2022

#### Changes and fixes:

1. Improved wheel model detection (Inmotion V11 and V12).
2. Fixed: heartbeat sound was enabled by default.
3. Fixed: overvoltage alarm was enabled regardless of user setting.
4. Other improvements and fixes.

## EUC World 2.14.0 Release Notes

Release date: 14 January 2022

#### Changes and fixes:

1. Adjustable volume of sounds & speech.
2. Customization of warning, alarms and other sounds (Premium only).
3. Automatic ride logging - will be used for personal log book and stats.
4. Improved data synchronization.
5. Various other improvements and fixes.

## EUC World 2.12.3 Release Notes

Release date: 29 December 2021

#### Changes and fixes:

1. Improved filtering of GPS errors.
2. Other improvements and fixes.

## EUC World 2.12.2 Release Notes

Release date: 28 December 2021

**Changes and fixes:**

1. More detailed tour map .
2. Updated Italian translation.
3. Other improvements and fixes.

## **EUC World 2.12.1 Release Notes**

Release date: 26 December 2021

**Changes and fixes:**

1. Significantly improved video quality (when recording video with speedometer overlay).
2. Start of battery charging can be delayed from 15 minutes to 6 hours (in charger controller).
3. Various other improvements and fixes.

## **EUC World 2.12.0 Release Notes**

Release date: 17 December 2021

**Changes and fixes:**

1. Improved built-in camera.
2. Videos can now be added to tours.
3. Battery balancing phase duration can be adjusted (in charger controller).
4. Fixed: CSV data logs were not synchronized.
5. Fixed: app crashed when taking a picture or recording video on some devices.
6. Other minor fixes and improvements.

**Note:** After updating, make sure to grant EUC World storage access in Android system settings (in "Apps" settings). Storage access permission may be also granted in app by starting data logging or starting camera.

## **EUC World 2.10.3 Release Notes**

Release date: 5 December 2021

**Changes and fixes:**

1. AVAS sound packs can be loaded from a file.
2. Updated translations.
3. Minor fixes and improvements.

## **EUC World 2.10.2 Release Notes**

Release date: 27 November 2021

**Fixes:**

1. Fixed: sounds and voice messages not working on some Android 11+ devices.

## **EUC World 2.10.1 Release Notes**

Release date: 25 November 2021

### **Fixes:**

1. Fixed: Tizen-based Samsung smartwatch couldn't connect with EUC World running on Android 11+ device.

## **EUC World 2.10.0 Release Notes**

Release date: 22 November 2021

### **Major changes and new features:**

1. Added support for Begode Hero and Commander.
2. Added support for Veteran Abrams.
3. AVAS sound packs can be now easily installed & changed directly from AVAS menu.
4. Tour progress sharing can now be delayed from 5 minutes to 3 hours.
5. Tour & data log synchronization has been significantly improved and use less bandwidth.
6. With new Begode wheels, EUC World can now use wheel alarms (2rd speed alarm beep and 80 % beep) to generate speed & safety limit alarms.
7. New quick actions: mute/unmute multimedia and disable/enable lift sensor (supported in King Song and Inmotion wheels only).

### **Other changes:**

1. Due to Android 11 compatibility requirements, new data logs, pictures and videos are now stored in respective public folders - "Downloads", "Pictures" and "Movies" - under "EUC World" subfolder.

### **Fixes:**

1. Fixed problem: wheel unlocking not working in King Song wheels after updating to newest firmware.

## **EUC World 2.8.6 Release Notes**

Release date: 20 September 2021

### **Changes and fixes:**

1. Updated Wear OS companion app.
2. Improved Inmotion V12 support.
3. Improved Ninebot One S2/A1/Z support.
4. Various fixes and improvements.

## **EUC World 2.8.4 Release Notes**

Release date: 29 August 2021

#### Fixes:

1. Fixed problem: battery level was indicated incorrectly after updating Inmotion V12 to firmware 1.4.31.

## EUC World 2.8.3 Release Notes

Release date: 27 August 2021

#### Fixes:

1. Fixed problem: connectivity issues with some Inmotion V11 and V12 EUCs.

## EUC World 2.8.2 Release Notes

Release date: 25 August 2021

#### Fixes:

1. Fixed problem: safety margin alarm setting always reverts back to 20 %.
8. Fixed problem: some Ninebot One S2 EUCs can't be connected.

## EUC World 2.8.1 Release Notes

Release date: 18 August 2021

#### Changes and fixes:

1. Updated Ukrainian translation.
2. Fixed problem: accessing wheel settings in Inmotion V11 caused the app to crash.

## EUC World 2.8.0 Release Notes

Release date: 17 August 2021

#### Major changes and new features:

1. Added support for Inmotion V12.
2. Added speed limit alarm feature.

#### Other changes:

1. Average power and average current is calculated only during a ride.

#### Fixes:

1. Fixed problem: transportation lock status meaning was inverted in some Ninebot One wheels.
2. Fixed problem: could not connect with some versions of Ninebot One S2 wheels.

## EUC World 2.6.4 Release Notes

Release date: 15 June 2021

### Changes and fixes:

1. Added support for safety margin in most Gotway/Begode/Veteran wheels.
2. Users of most Gotway/Begode/Veteran wheels may now use safety margin alarm to improve riding safety.
3. Improved battery circuit resistance estimation.

## EUC World 2.6.2 Release Notes

Release date: 27 May 2021

### Fixes:

1. Fixed problem: voltage, current and battery level was not displayed for Gotway/Begode wheels equipped with 67 V battery.

## EUC World 2.6.1 Release Notes

Release date: 27 May 2021

### Changes and fixes:

1. Translation updates.
2. Fixed problem: incorrect speed and temperature values was displayed in some Inmotion wheels (pre-V11).

## EUC World 2.6.0 Release Notes

Release date: 25 May 2021

### Major changes and new features:

1. Completely rewritten and improved support for Ninebot One Z and Ninebot One S2/A1. Now you can get detailed battery information, including individual cell voltage readout and diagnostics for both batteries. Connection with wheel has been improved. Live data has been extended by new parameters. Wheel settings menu has been added.
2. Completely rewritten and improved support for older Inmotion wheels (pre-V11).
3. Battery circuit resistance measurement has been added for King Song, Inmotion and Ninebot wheels. This feature may greatly help in early detection of battery and wiring related faults that can be potentially dangerous.
4. User may now switch between dark (default) and light UI theme.
5. Weather radar overlay can be displayed on tour map.
6. Cycling or hiking trails overlay can be displayed on tour map.
7. Personal heatmap overlay can be displayed on tour map. Note - this is a "Premium" feature.
8. Added separate motor phase current parameter for Gotway/Begode and Veteran wheels. From now on parameter of current will represent mathematically estimated battery current. This will make current & power readouts to be more realistic and comparable to other wheels. This will also enable monitoring of

estimated energy usage. Please note - this is an experimental feature that may be changed/tuned in future versions of EUC World.

Other changes:

1. Improved tour map display.
2. Improved Inmotion V11 support and compatibility with latest 1.2.22 firmware.
3. Automatic tour recording won't start when battery charging is detected (if supported by the wheel firmware).

Fixes:

1. Fixed problem: max battery level was not recorded correctly in tour statistics.
2. Fixed problem: Inmotion V11 connection lost condition was not fully detected.

## EUC World 2.4.4 Release Notes

Release date: 29 March 2021

Changes:

1. Added compatibility with Inmotion V11 firmware version 1.2.22 (released on 29 March 2021).

## EUC World 2.4.3 Release Notes

Release date: 25 January 2021

Fixes:

1. Fixed problem: energy consumption graph was not displayed on tour chart.
2. Fixed problem: reset user distance option was missing. Now it's available in "Wheel" menu.
3. Fixed problem: wheel settings in app menu was inactive when Ninebot wheel was connected.
4. Fixed problem: map tile caching for offline use was not working.
5. Fixed problem: app crashed when user tapped OK on a wheel selection dialog window, when wheel model was not selected.

## EUC World 2.4.2 Release Notes

Release date: 23 January 2021

Fixes:

1. Fixed problem: in some rare cases tour metadata was not synchronized with server, what caused problems with incorrect display of this tour and not displaying tour list.

## EUC World 2.4.1 Release Notes

Release date: 21 January 2021

Fixes:



1. Fixed problem: wheel speed was not recorded with tour.
2. Fixed problem: wheel settings in app menu was inactive when Veteran Sherman was connected.

## EUC World 2.4.0 Release Notes

Release date: 21 January 2021

### Major changes and new features:

1. Lateral tilt limit and beeper volume settings are available for newest Begode RS.
2. Battery charging controller, utilising TP-Link HS110 smartplug. Charging control can be used to actively monitor and control battery charging process and terminate charging when battery is fully charged, after balancing phase. User can also define battery level at which charging is terminated (this requires wheel to be connected during entire charging process). Safety timer may also be set to terminate charging after defined time. Note - this is a "Premium" feature.
3. Option to continue last finished tour when starting new tour recording. This is possible if new tour starting point is located within 200 meters from finish location of last tour and last tour was finished no more than 6 hours earlier.
4. LED mode in Gotway/Begode wheels can be set to "stick" to last user selection.
5. Automatic "Go Home" mode for Inmotion V11. When low battery mode is detected, "Go Home" mode is activated automatically so rider can continue riding.
6. Optimizations for Lemfo Lem T or Ticwris Max devices making EUC World much easier to use on these devices.
7. Weather information may be received during a ride, including wind analysis. Weather is reported for a rider current location and is refreshed every 15 minutes. Wind analysis allows rider to be aware how wind impacts his ride, providing information about effective wind impact on the ride. Tool especially helpful for a long-distance riders. This requires Internet connectivity (data plan usage is very low). Note - this is a "Premium" feature.
8. New quick actions added - "Strobe" for enabling/disabling strobe light and "Request weather information" for requesting weather information message.
9. Introduced compact display mode - feature that hides top status bar when minimizing bottom bar. This maximizes usable screen area and is recommended for all small-screen devices.
10. Issue reporting tool built-in into application. This allows user to easily report any issues and bugs and all necessary technical information will be attached to the issue report and sent, greatly helping with resolution of the problem.
11. Internal web server that allows for integration with other applications thanks to open HTTP API. In future releases this will also allow to remotely control EUC World app from any device within the same home/local network (for example to remotely control charging process).
12. Option to keep alive Bluetooth audio devices. Some BT headphones/speakers etc. goes to standby/power save mode when no audio is played for some time. When audio is played, restoring normal mode may take some time causing the beginning of the audio to be cut. Keep alive option prevents BT audio devices to go to sleep by playing quiet noise that sometimes can be heard as a waves on the sea shore.
13. Added Romanian language.

## Other changes:

1. Unified and simplified user interface.
2. Default font has been changed from condensed to regular for better readability.
3. Simplified and improved dialog windows. Where possible (and applicable), dialog windows were replaced by simple settings in application menu.
4. Application menu has been reorganized. Grouped settings into categories and added descriptions to make settings easier to understand and use.
5. Simplified top navigation bar. Speech and watch button has been removed, as they are not required to be readily available. Remaining buttons has been slightly enlarged, so it's now easier to use them.
6. When connecting to a new Ninebot or Gotway/Begode wheel (that wasn't yet used with the app), dialog window pops asking user to select wheel model. Once selected, wheel model can be changed from wheel settings (not available when tour recording or data logging is active).
7. Interrupted tour recording now also works for autostarted tours.
8. Improves application stability and reliability. Now when killed, app doesn't restart its components. Still, killing the app is not a best way to close it, because...
9. App can be also closed from main menu.
10. Tour map now displays rider location even if tour recording is not active.
11. Journey timer now doesn't start until first movement is detected.
12. Legal speed limit is now adaptive, depending on area (country, state etc.) where rider is located. This requires Internet connectivity (data plan usage is very low).
13. Altitude displayed on GPS gauge is now relative to mean sea level instead of theoretical, WGS84 ellipsoid.
14. Wheel model may be displayed on tour page in euc.world. User may prohibit this in account privacy settings.
15. Wheel model may be included on video overlay.
16. Wheel password dialog is no longer displayed for recognized wheels that doesn't support password/PIN protection.
17. Improved support for most recent King Song firmware versions.
18. Improved support for Veteran Sherman.
19. Other minor changes, bug fixes and improvements.
20. Now EUC World loves you even more ;-)