

TAIKO AUDIO

Battery Management System (BMS) App Manual

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Description

The Battery Management System (BMS) App is your main gateway to the Olympus Music Server's charging circuits. Communicating directly with the server via Bluetooth, it requires no network skills and provides an easy and reliable method to connect to the server and configure its settings.

Functionality

The Olympus Server contains two independent battery sections that appear independently in the BMS app. The Olympus I/O contains a third and fourth battery section, creating four independent battery sections in the app in total.

If you only have the Olympus server, you will see only two sections, and if you have the Extreme server with the Olympus I/O, you will only see the I/O's two battery sections.

In the Olympus Server, the first battery section powers the core system. It is configured such that the battery is constantly charged, combining the technical advantages of battery power with the practical benefits of smaller cell sizes. The second battery section powers the XDMI Output cards, and is configured to charge in cycles, like a traditional battery.

When the Olympus I/O is added, the server's second battery section is reconfigured to power the server's XDMI Interface Cards, that connect the Olympus to the I/O.

In the Olympus I/O, the first battery section powers the Network Card, and the second section powers the I/O's XDMI Interface Cards and XDMI output.

To maintain ideal battery circumstances, there is a pre-programmed charging cycle between 00:00 and 07:00 for the Olympus Server's second battery section and both the Olympus I/O's sections. For these battery sections, the charging period may also be freely adjusted to precisely fit in with your personal schedule.

Battery Voltage and Sound Quality

Please note that the battery charge has a direct impact on the Sound Quality.

- The minimum recommended Voltage for the System Battery is 13.6 V.
- The minimum recommended Voltage for the XDMI Battery is 12 V.

Download and Install

The BMS app can be found as a free download in the Apple App Store and Android Play Store. Just search for Taiko BMS, and you will find it. The app works on phones and tablets.

After installation, the app is called “Taiko” on iPhone/iPad, and “Taiko BMS Monitor” on Android. These names and icons will be updated and aligned in a future release.

App Use

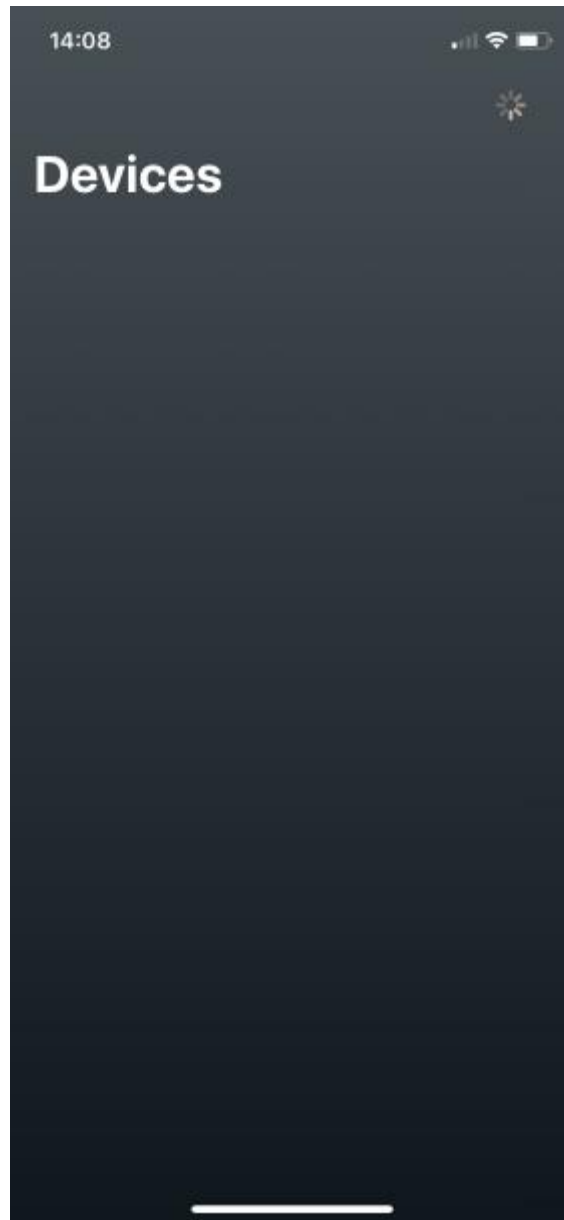
Upon first launch, the app asks for permission to use Bluetooth. Please allow this, so that it can find the server. The app will automatically find and connect to the server, after which it will prompt the user to type a PIN code. The default code is 000000 (6 times 0).

Time zone, time, and date are set automatically when the app is connected to the server via Bluetooth. Please allow a few seconds for the battery logic information to sync to the app.

Important Note

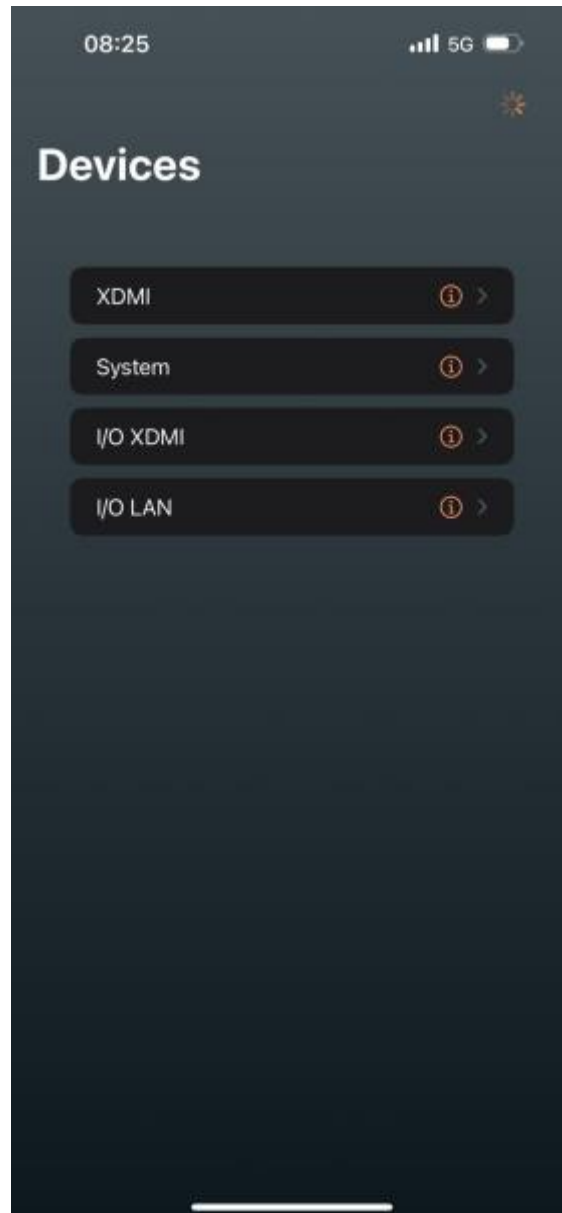
In case the PIN Code is forgotten, it can be reset to factory default, which reinstates a key known only to Taiko. To avoid support load because of the required additional steps, we kindly ask the user to take great care of their code, or simply leave it at the default 000000.

While searching, or when the server is disconnected from the AC mains, or not switched on, the app's Devices screen will show no devices, as shown below.



(Server disconnected from the AC mains or not switched on)

As soon as the data is loaded, the app is ready for use. In the example below, we see the two independent battery sections of an Olympus Server and Olympus I/O.



From the discovered battery sections, please tap the one you want to check or adjust. Next, the main Dashboard screen will be displayed, providing a quick view of the most relevant parameters.

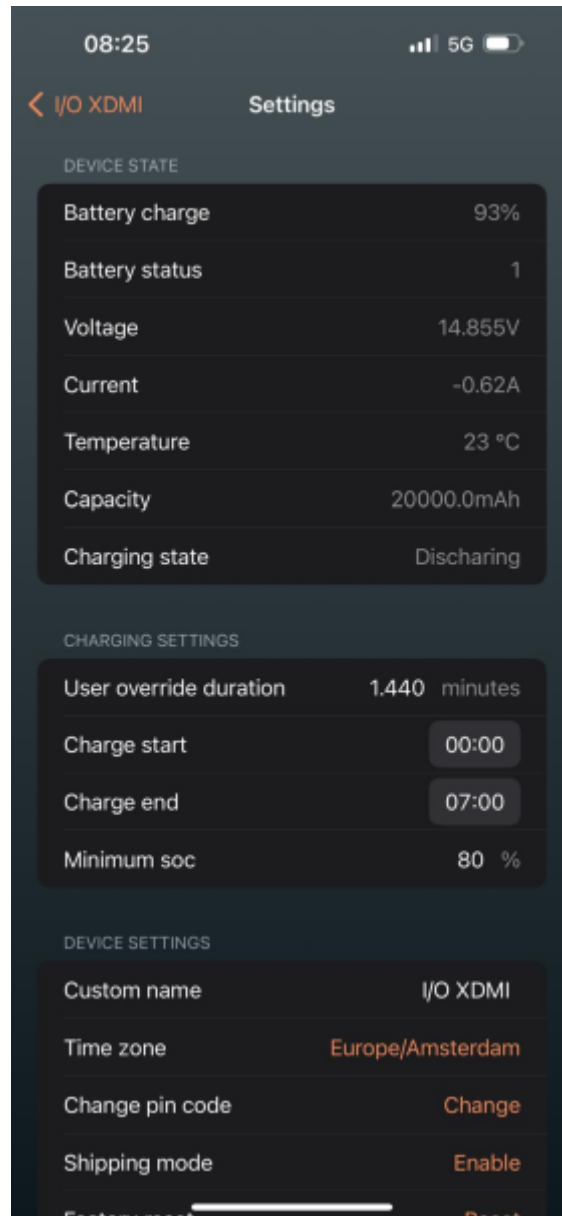


(Main Dashboard Screen)

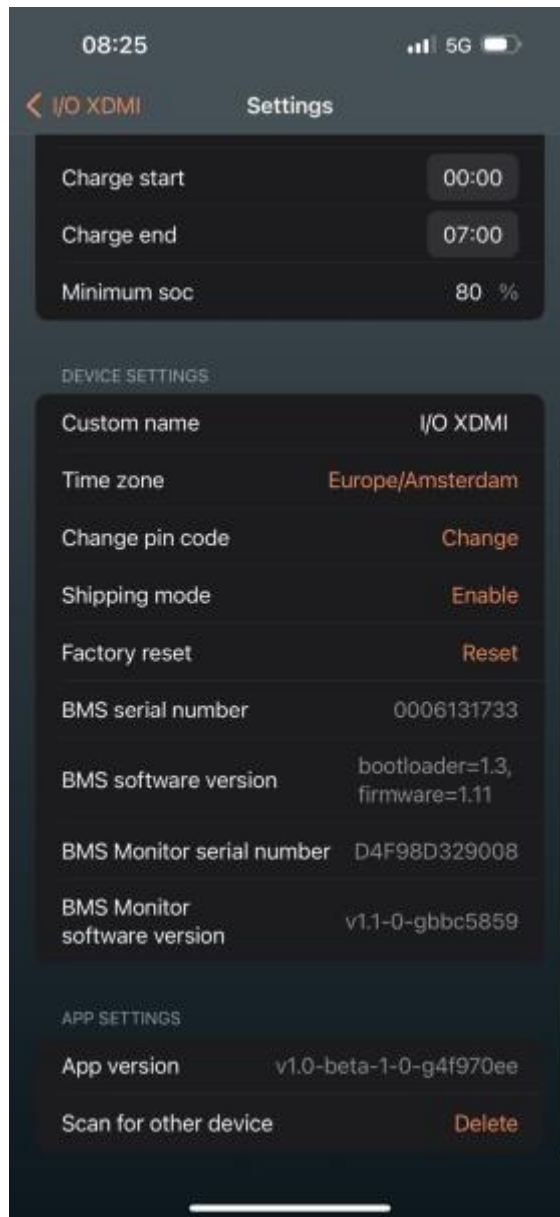
From the main Dashboard screen, tap the gear wheel in the top right to enter the settings screen.



All settings are displayed in a continuous view, meaning that all settings can be reached by scrolling down.

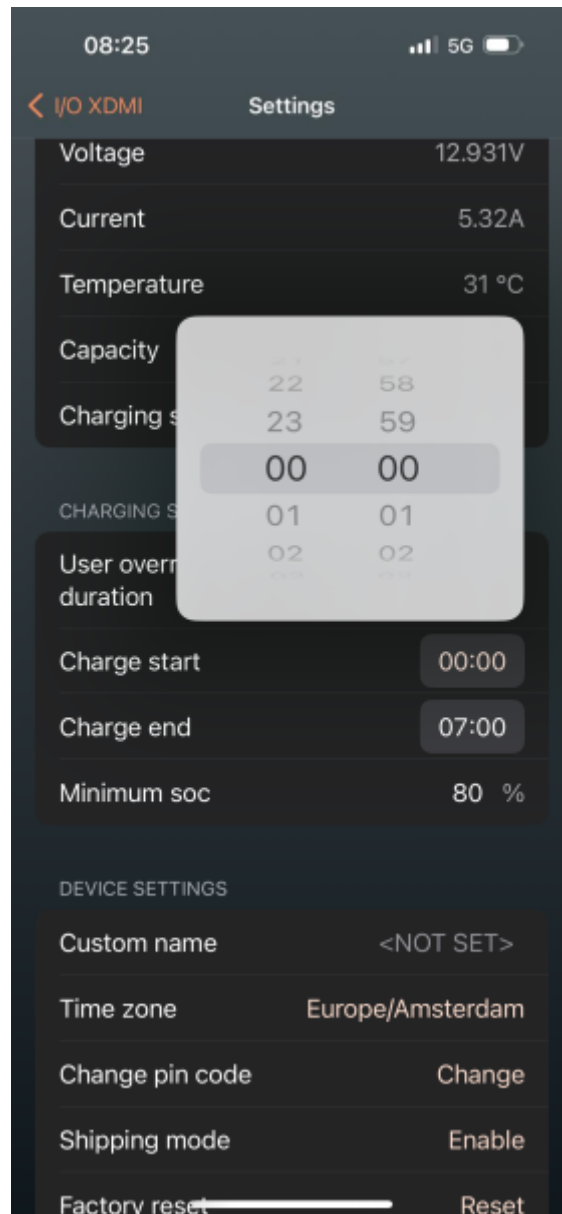


(Main settings screen, first page)

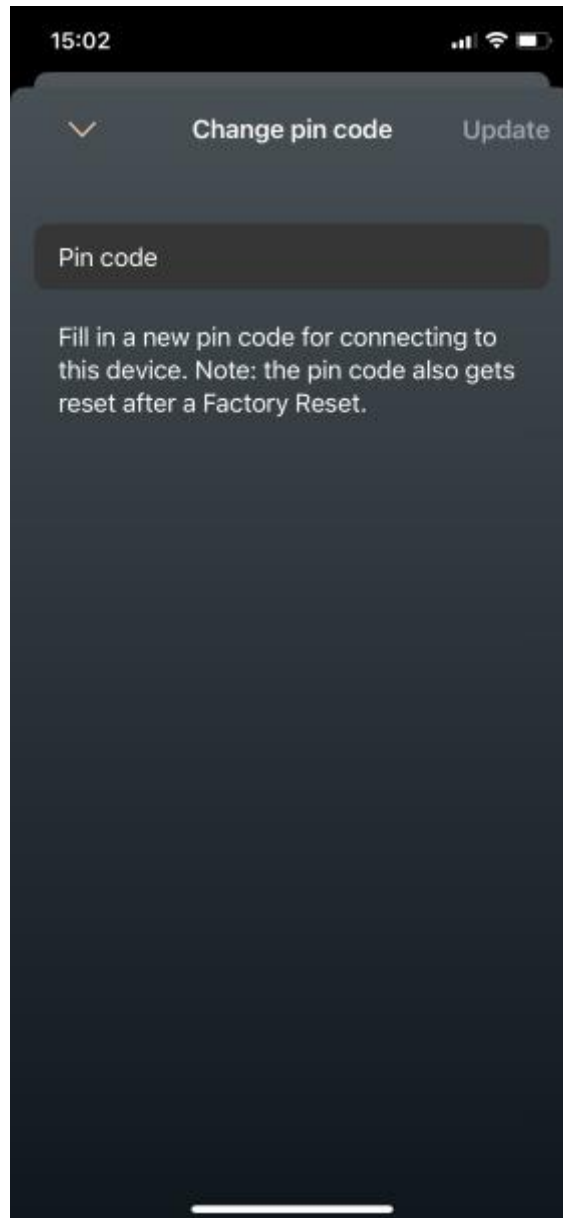


(Main Settings Screen, second page)

Most settings are self-explanatory, but we'll highlight a couple of them. First, there's the option to change the Charging Cycle. To set it, please select the Charge Start and Charge End fields, and enter your desired times. Please note that the average charging time to reach a full capacity is 7 hours. Naturally, the server can also be used with a partial charge, and it will also work while charging.



If desired, the user can change the PIN code. This is not required and up to the user. The code must use 6 digits.



(Change PIN code)

Lightning Storms

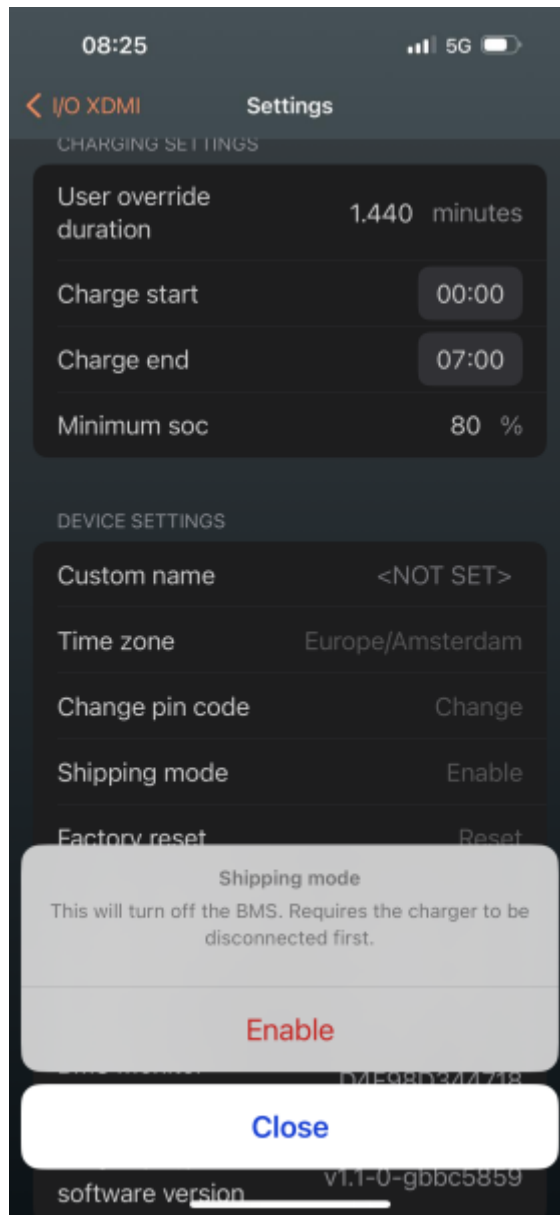
We recommend always leaving the server connected to AC mains power. In case of concern during lightning storms, a good solution would be to install a surge protector power distributor in parallel and temporarily plug the server into it, instead of the normal power distributor. This way, the server is protected, and the batteries can still be charged.

Shipping Mode

If it is expected that the server will be disconnected from the mains power for more than 2 hours, it can be set to Shipping Mode. This will discharge the capacitors and then shut down the motherboard and XDMI cards. After this, the unit can safely be left disconnected indefinitely. This is how we ship the unit.

Power off the unit with the rear switch. Wait for approx. 40 seconds for the Battery sections to shut down. You can check this by looking through the unit's perforated top, into the front right section, where the green light will go off. Then, use the BMS app and select shipping mode for each of the unit's Battery Sections.

Upon reconnection of mains power, the server will automatically switch out of shipping mode and prepare itself for normal use.



(Shipping Mode)