

AETHER DIGITAL PLATFORM

MOBILE APPLICATION

INSTRUCTIONS

Version 4.0 / 2023.10.13

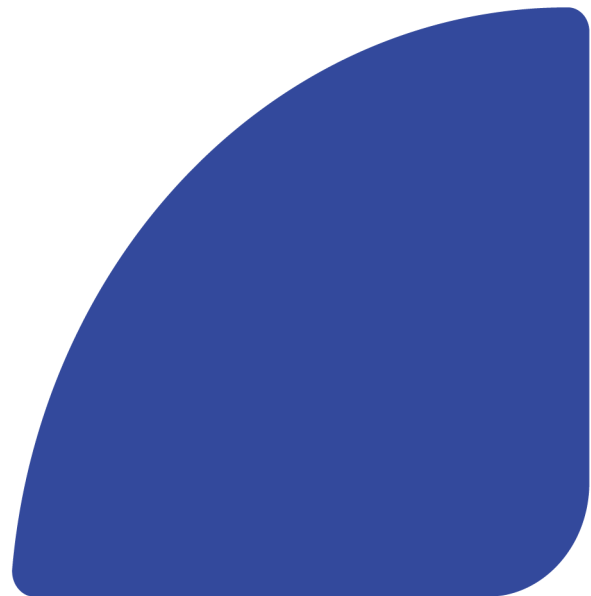




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1. GENERAL INFORMATION

Warning!

Date of the last update of this Software instruction: 2023.10.13

- We highly recommend reading this document carefully before installing the software
- This document contains information about the proper and safe use of the software.
- This document is regarding Aether Digital Platform Mobile 1.7.0 mobile software application..
- We highly recommend keeping this document in a safe place.
- If you have any questions about the product, please use the contact form on our website: www.aetherbiomedical.com
- Aether Digital Platform Mobile must be accessed via iOS (iOS 13 or higher) or Android (Android 6.0 or higher) and requires bluetooth and internet connection
- Aether Digital Platform Mobile allows user to adjust various settings and parameters of the Zeus hand via mobile phone.

2. INTENDED USE

The Aether Digital Platform Mobile [M-ADP] is intended to monitor the usage of the device and access settings of the Zeus (prosthetic hand class I device) as well as remotely contact with the clinician. The software provided by Aether Biomedical is designed exclusively for the Zeus hand, requires bluetooth and stable connection to the internet.

Warning!

- Avoid moving the hand during connection to the device and during installing/restoring of new configuration, configuration changes during the session with clinicians.

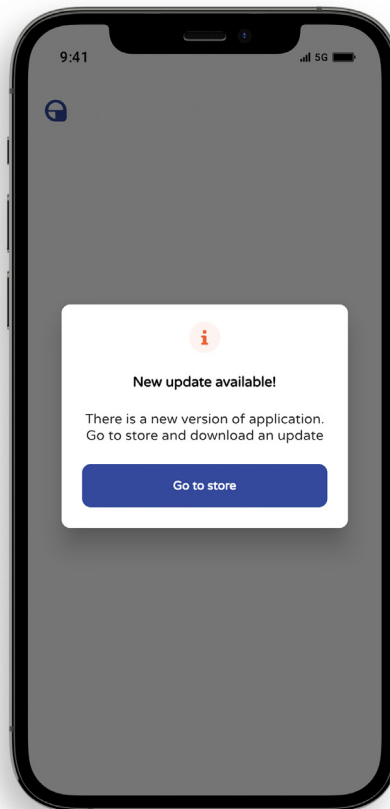


3. INSTALLATION

Aether Digital Platform Mobile can be downloaded and installed from Google play (Android) or Apple store (iOS).

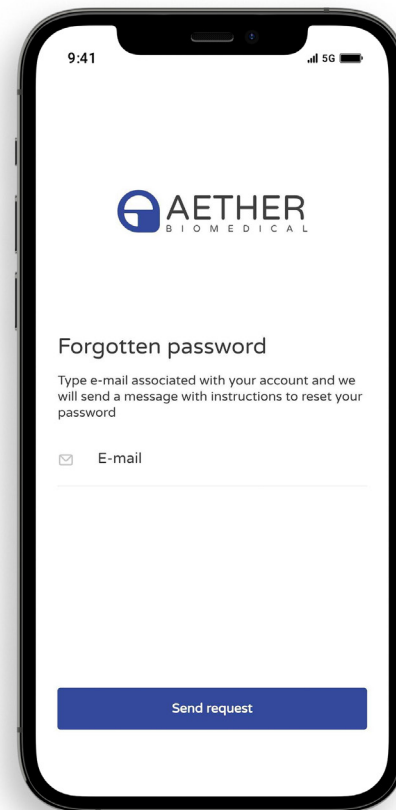
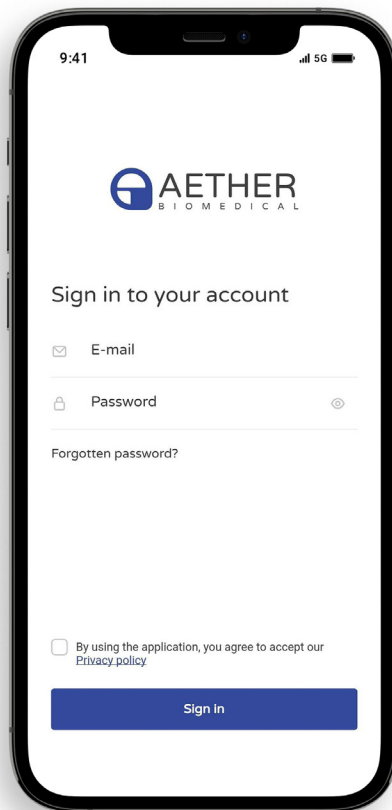
Update

When new version of software will be available you can see "New update available" notification. If new version is released you have to update the app to continue use of the app. and go to store button, which will directly take you to the store.



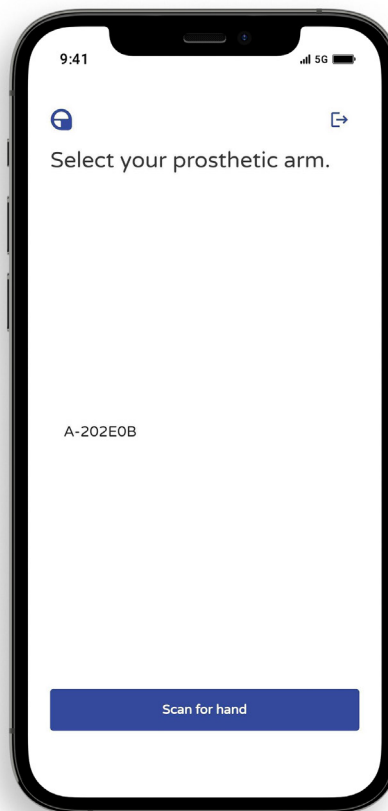
4. LOGGING IN

- To log in you should use your email and password provided by your clinician. Additionally, the terms of Privacy policy have to be accepted if you wish to proceed. If you forget your password, simply click on "Forgotten Password?"
- To reset your password, you should type your email address. The instruction on how to proceed will be sent to your email. If you don't receive it within a few minutes, check your spam folder.



5. CONNECTING TO YOUR DEVICE

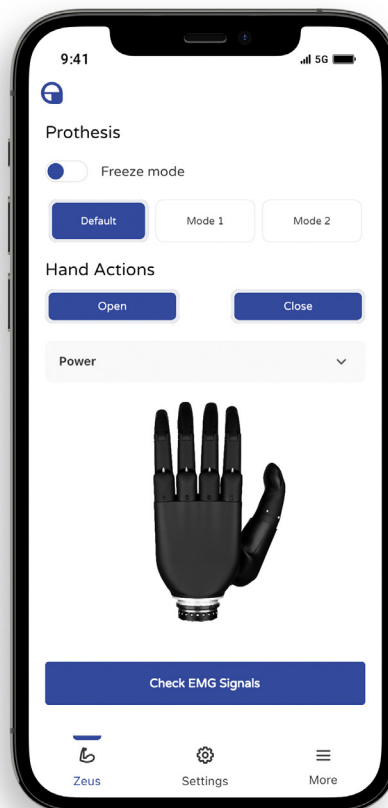
- o Aether Digital Platform Mobile requires you to connect to your prosthetic hand. You should make sure that your prosthesis is turned on and bluetooth (and location for Android users) on your phone is enabled. After logging onto the application, a screen will be shown and the automatic scanning process will begin. After a short while a bluetooth ID of the device assigned to you will be shown. Tapping it will connect the device to your mobile phone. If no device is found, after checking if the prosthesis is turned on and bluetooth is enabled, tapping the “Scan for hand” button will begin the scanning process again.



6. ZEUS TAB

Freeze mode

Freeze mode (switched on to right, switched off to left) is a mode that blocks prosthesis from moving. It is a useful feature for testing user signals without draining battery, distraction or risk damaging the device.



Modes

Modes represent different configurations saved in the device. They can be switched using buttons with corresponding mode name in the upper-center part of the screen. Mode names can be renamed by clinician.

Each mode holds the following parts of configuration:

- Grips order
- EMG settings
- Speed control strategy
- Grip switching mode
- Co-contraction/pulse/hold-open timings
- Soft-Grip settings

The remaining configuration parts are not stored in a mode, and as such are common for all modes:

- Grips fingers positions
- Input sites

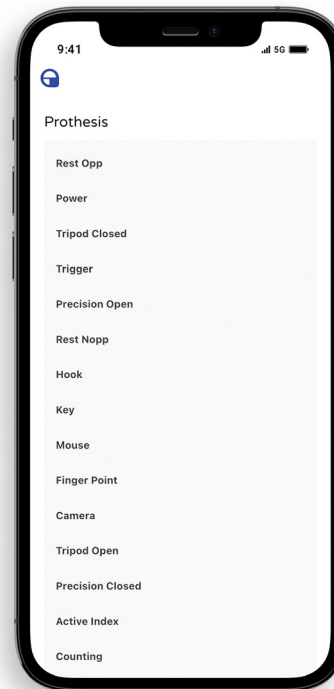
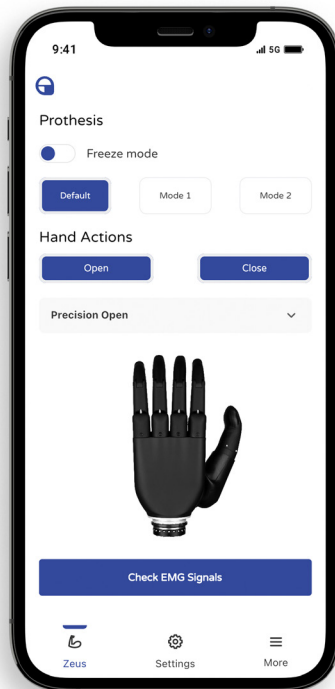


Hand Action

From the mobile phone you can trigger the relevant action in your hand:

- Open- it is possible to open the hand with the "Open" button
- Close - close the hand with the "Close" button

In addition, you can see information about the active grip from the drop-down menu. After expanding the list, you can select a different grip and the hand will go into the selected setting by itself.



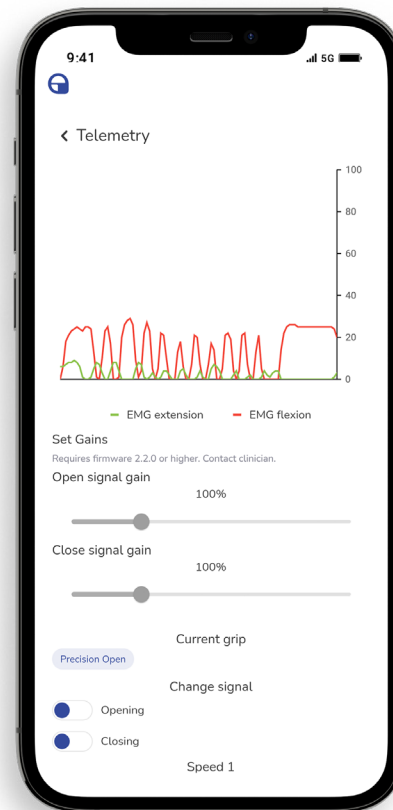
7. CHECK EMG SIGNALS

In the “Check EMG Signals” screen you can see the graph depicting real-time signals from your muscles. To go to this screen the “Check EMG Signals” button has to be tapped.

On the right side there is a scale with numbers representing strength of the signals. On the graph can be seen two coloured lines: opening EMG (green) and closing EMG (red).

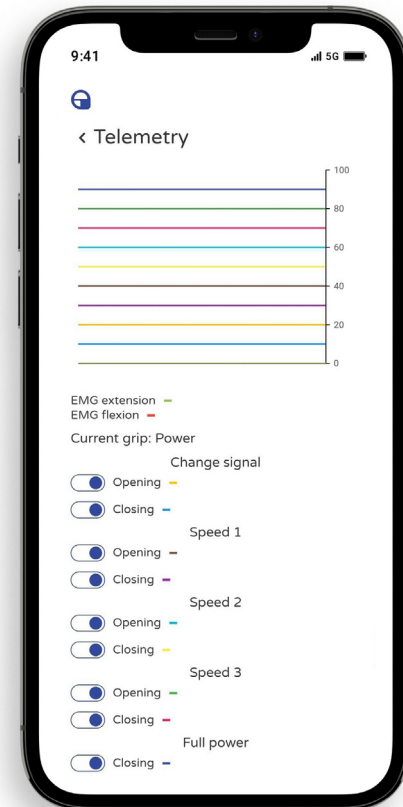
Set Gains: Adjust the boost of the EMG gains to experiment with ease of control. These gains are not saved in the hand once the hand is turned off and on. To have these boosted gains permanently saved in the hand, contact your clinician.

- Requires firmware 2.2.0 or higher.



Sliders turn on and off visual cues for various thresholds:

- Change signal
 - Opening (orange): minimal threshold for recognizing signal as opening change signal
 - Closing (blue): minimal threshold for recognizing signal as closing change signal
- Speed 1,2,3 (speeds 2 and 3 are only used with Proportional Speed control strategy)
 - Opening (brown, turquoise, green): minimal threshold for recognizing signal as opening for threshold 1,2 or 3
 - Closing (purple, yellow, pink): minimal threshold for recognizing signal as closing for threshold 1,2 or 3
- Full power
 - Closing (dark blue): minimal threshold for recognizing signal as closing, used for Soft-grip functionality
- Thresholds can be adjusted by clinician only.

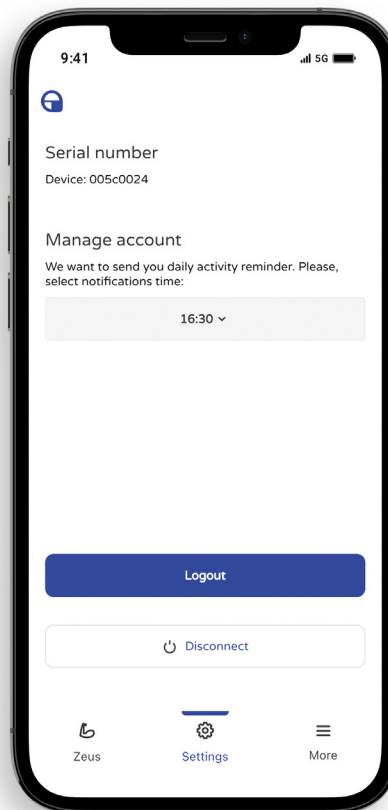


8. SETTINGS TAB

In the settings tab you can see the SN of the selected hand.

Below are options for logging out from the account and disconnecting from the prosthetic hand.

In the settings tab you can set up daily activities reminder by choosing suitable notification time.

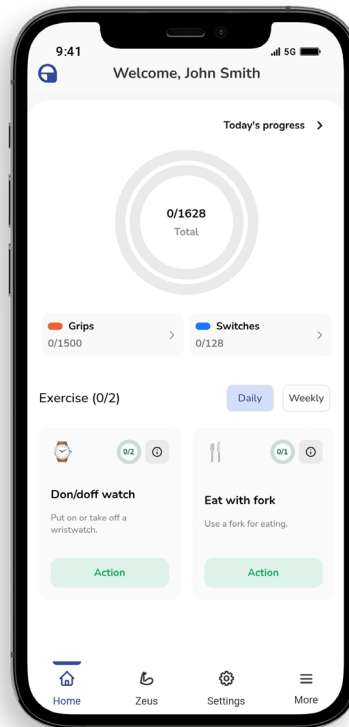


9. GOALS

Allied Health, Clinic Admin and Clinicians can set up goals for patients and monitor their progress. Goals can be set up for 3 activities:

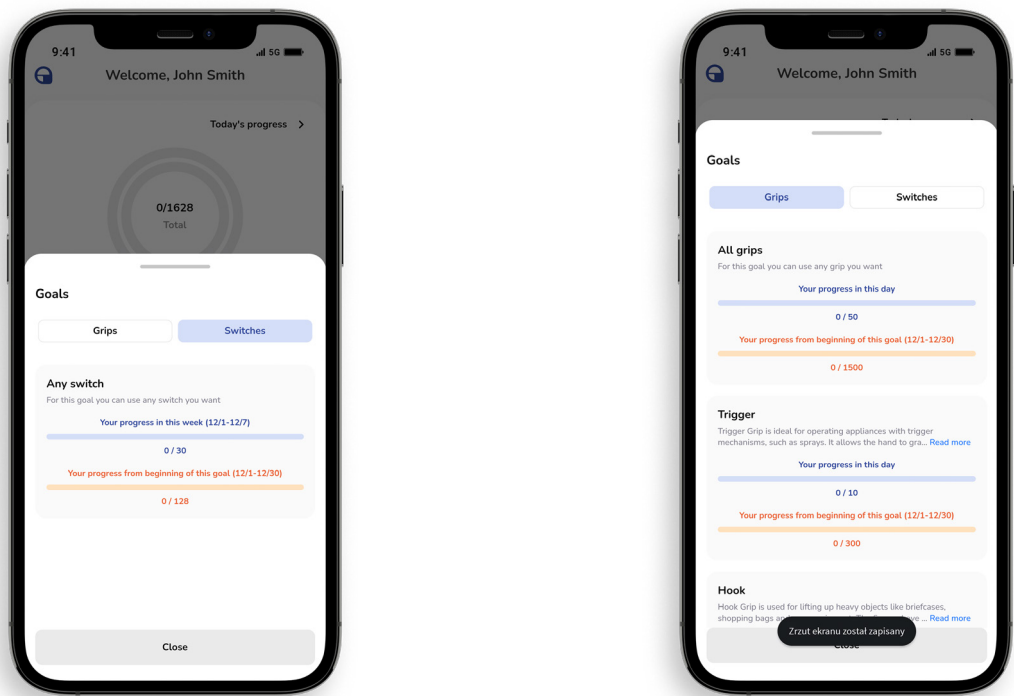
- o Grips
 - o Switches
 - o Exercise (list available in ADP)
- Grips and switches are reported automatically to ADP when a patient connects a mobile app to hand. Exercises need to be reported by patients in mobile app. Clinicians can check progress for each goal in ADP and see if patients reported any issue with exercise.

If the clinician sets a goal for you, the main view in the application will be your statistics.



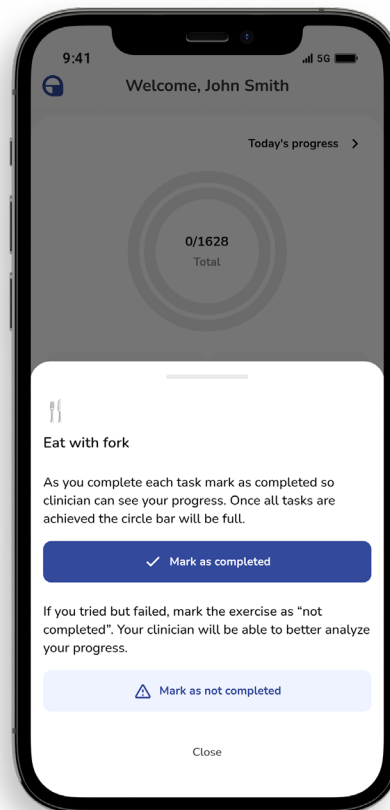
- On this screen you can check what goals you have set for grips and switches and what exercises and with what frequency you should perform them.

By clicking on the arrow next to grips or switches you can see the details.

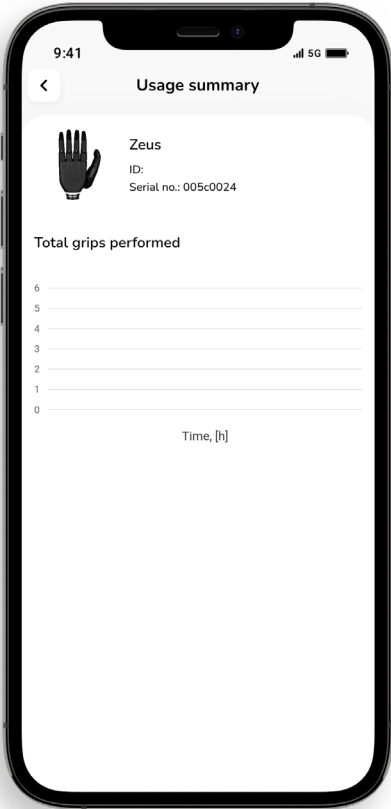


- By clicking "Action", a window appears in which you can mark whether you successfully completed the exercise. This is very important because it will allow the clinician to track your progress.

Clicking on "Daily"/"Weekly" shows exercises at the frequency specified by the clinician.

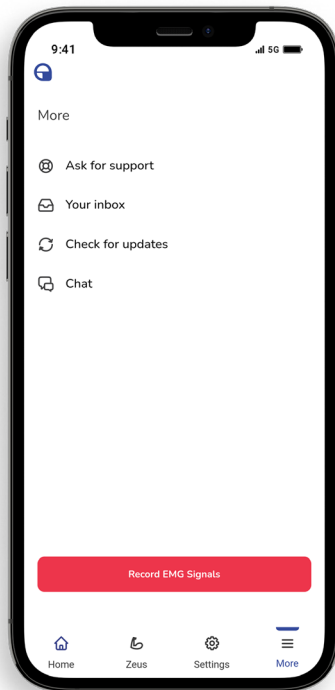


- By clicking on Today's progress you can check today's statistics.



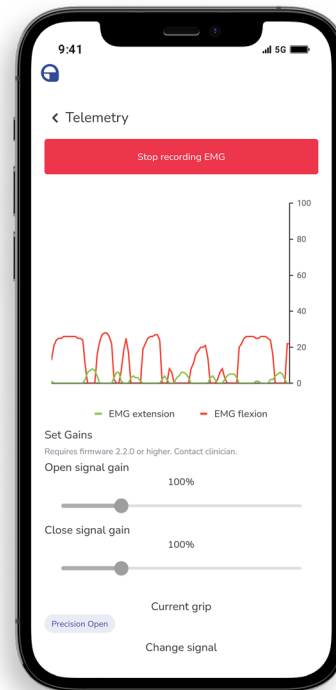
10. MORE TAB

If there is a problem with the hardware or software of the prosthesis, a configuration change is needed, or if you have a question that needs an answer you can contact your clinician by tapping "Ask for support". In case you want to attach recorded EMG signals, tap "Record EMG signals" first. All the Support tickets and messages are stored in your inbox. If there is a new firmware you can check if it's available by tapping "Check for updates".



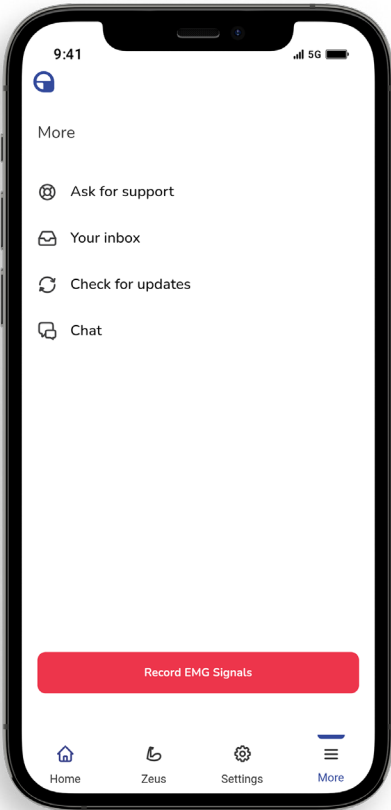
11. RECORD EMG SIGNALS

When this screen is active the EMG signals will be visible on the graph and the signal will be recorded. To finish recording, tap "Stop recording EMG". It will automatically redirect you to "Ask for support" screen with your data attached.

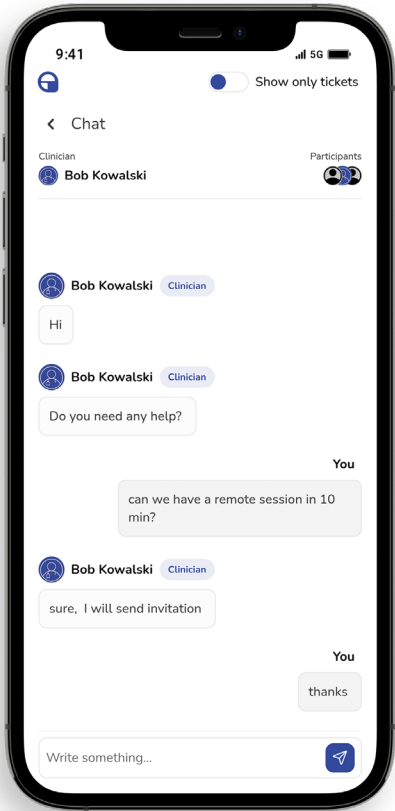


12. CHAT

By clicking on Chat you will open a view of the conversation with your clinician.



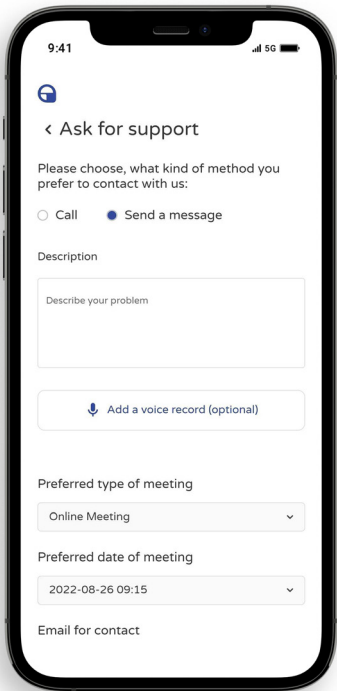
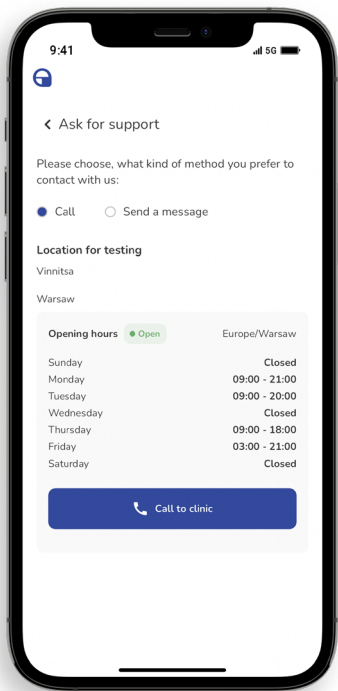
At the top you will find information about chat participants. The clinician can add other participants, e.g. Allied Health. Other participants can write on chat too. You will be notified about messages on mobile app with a notification.



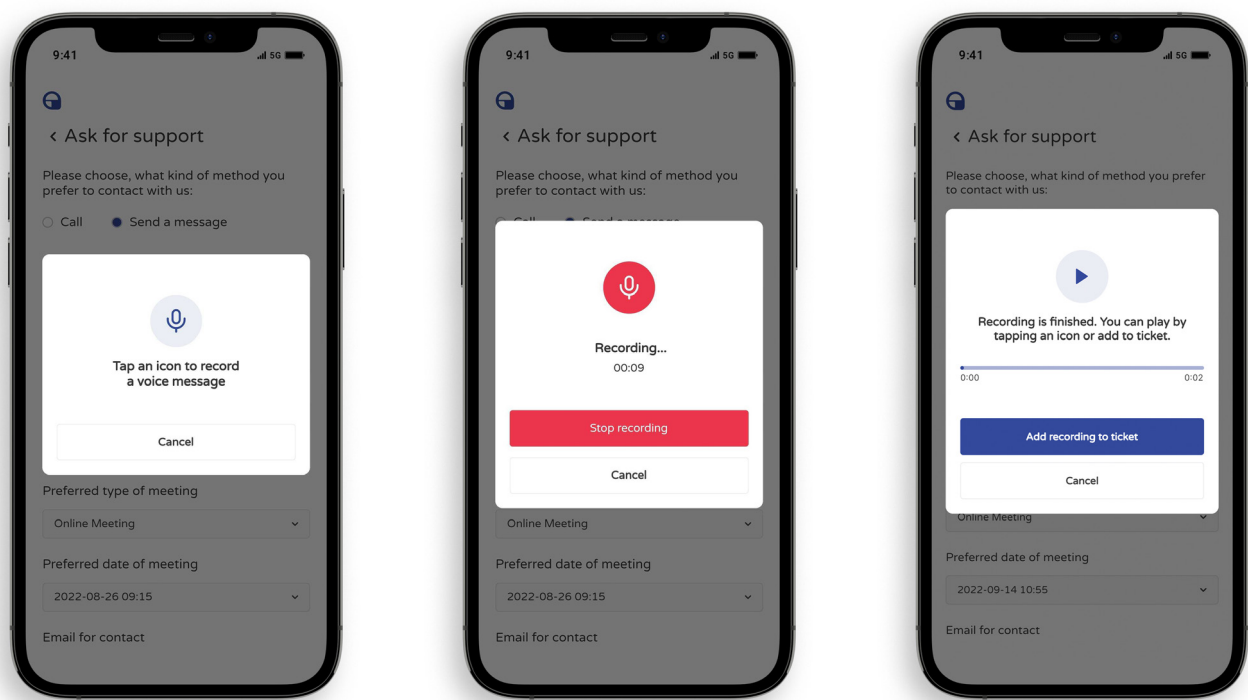
13. ASK FOR SUPPORT

In this screen you can ask for clinician support. By pressing the “Call to Clinic” button, a call is placed within specified hours. You can also send a notice or ticket to the clinic by hitting “Send a message”.

In the description box you should specify a request or a problem that has occurred, preferably describing what led to it, what is happening and what your desired outcome would be. You can also record a voicemail message by clicking “Add voice record (optional)”.



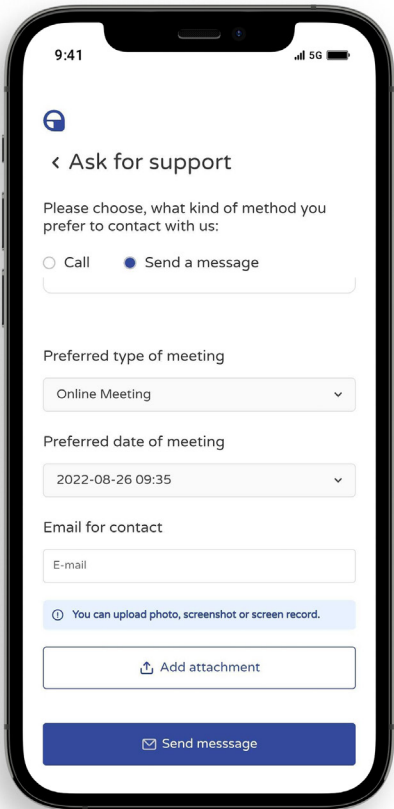
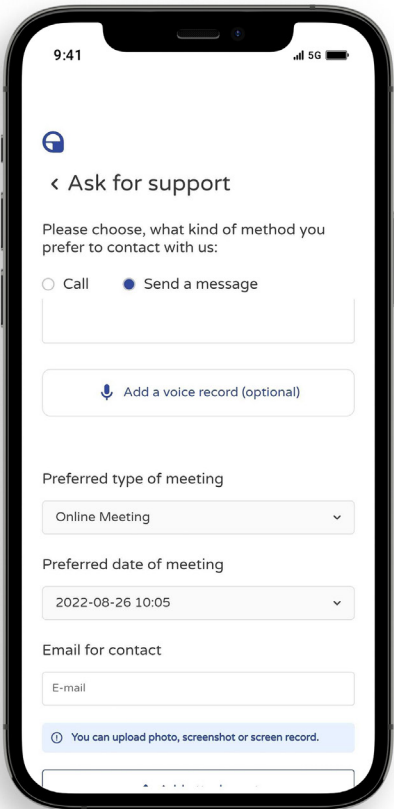
Tap the microphone icon to start recording your audio message. When finished recording hit “Stop recording”.



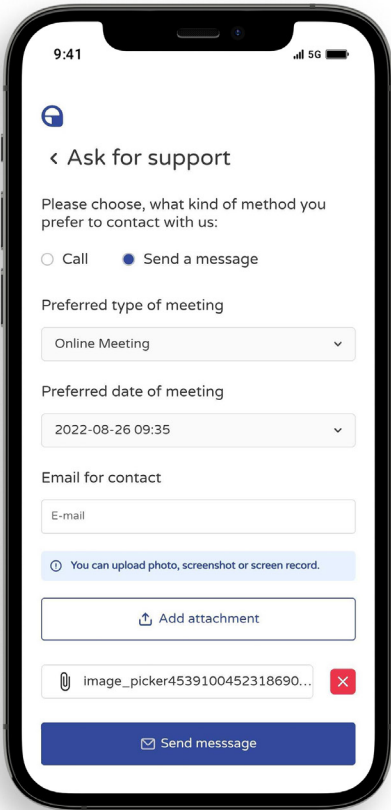
You should set the preferred type and date of meeting by selecting the appropriate information in the relevant boxes. You will need to provide you email address too.

In case you want to attach screenshots, pictures or videos you can use the “Add attachment” button. The file (.jpg, .png, .gif) should not be larger than 100 Mb.

After filling out all required information, a ticket will be sent after tapping the “Send message” button and you will be informed by a pop-up that the message was sent successfully.



Select “Add attachment” to add a file from your photos or videos folder on your mobile device. Once selected you will see the file name below next to red X. To delete the file you press the red X button. Hit “Send message” once complete.

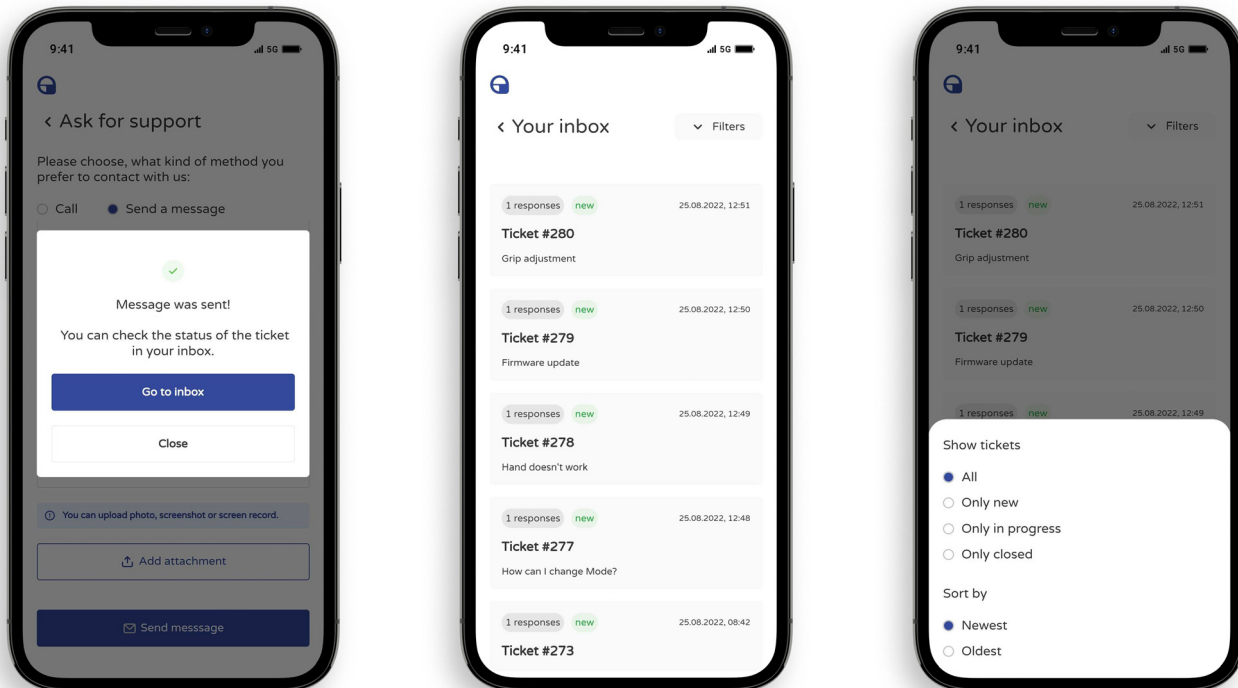


14. YOUR INBOX

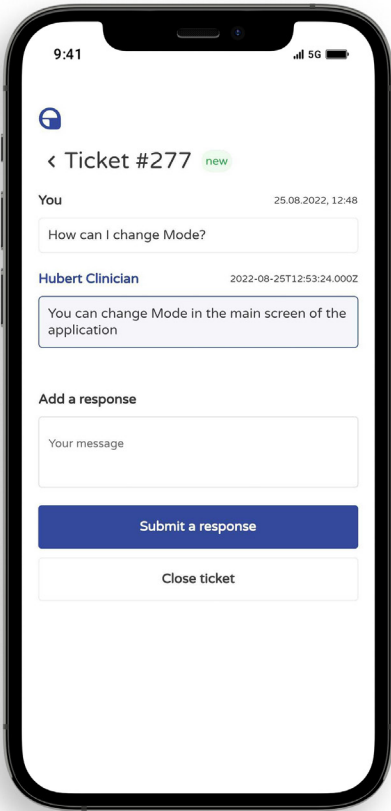
In the “Your inbox” screen you can see and access all tickets that have been submitted. Each ticket box has information about:

- number of responses
- status (new or closed)
- date
- ticket number
- message content

In the right upper corner you can apply filters to make sorting through tickets easier. By tapping the ticket box you can access details about the ticket.

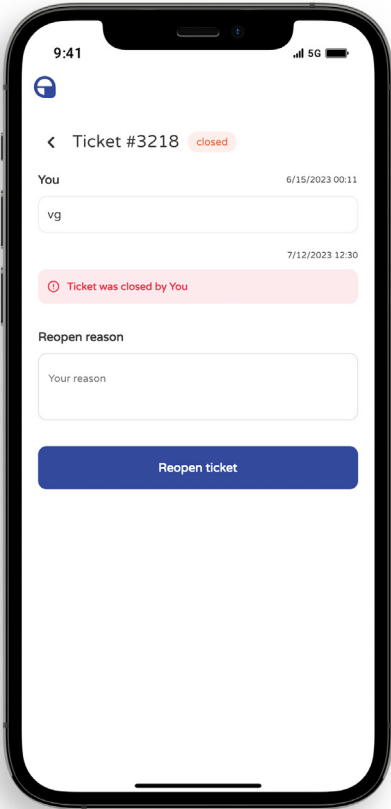


In the ticket screen you can see the history of responses with their corresponding dates. In the box “Add response” a text message can be written. Tapping the “Submit a response” button will send the message to the clinician. When a problem is resolved, tapping the “Close ticket” button will change the status of the ticket to “closed”.



15. REOPEN TICKET

There is a possibility to come back to closed ticket and open it again by the button "Reopen ticket"

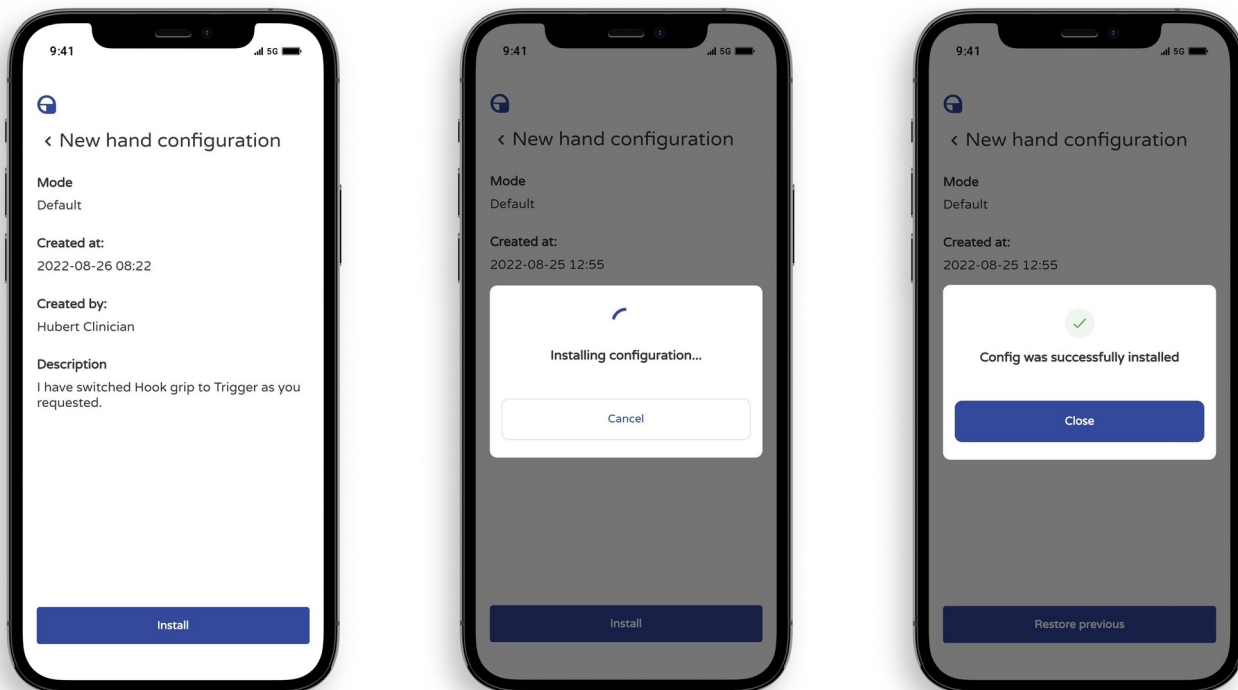


16. INSTALLING NEW CONFIGURATION

Whenever a new configuration is available, via ticket or after a session with a clinician, in the “More” tab you have to install it. In the “New hand configuration” screen there will be details about new settings:

- Mode
- Date of creation
- Creator of new configuration
- Description

You can install a new configuration by tapping the “Install” button.



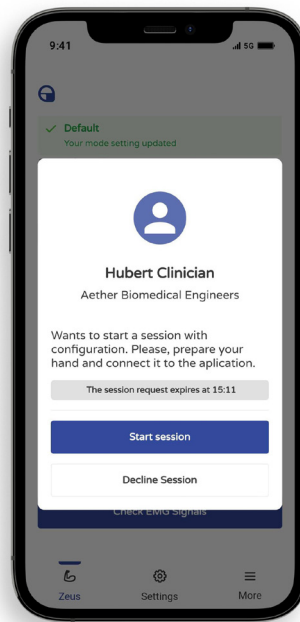
After a while a pop-up should inform you about successful installation and the “Install” button should change to “Restore previous”.

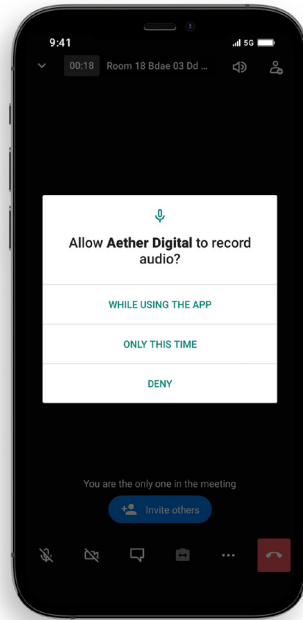
Restore previous

You should check if the new configuration works as expected. In case you would like to go back to previous working settings, “Restore previous” button should be tapped.

17. SESSION WITH CLINICIAN

You and the clinician can connect through sessions. After you send the ticket and a meeting has been confirmed, the clinician can create a session request which will display on your screen. You should make sure that your prosthesis is powered on and is connected to the mobile application before session starts. Additionally your internet connection should be checked. Session can be accepted or declined by tapping corresponding buttons. If no action is taken, the session request will expire. The expiration time is displayed in a gray box in the center of the screen. During the session, the clinician will see EMG signals in real time and will have access to all of the hand settings.

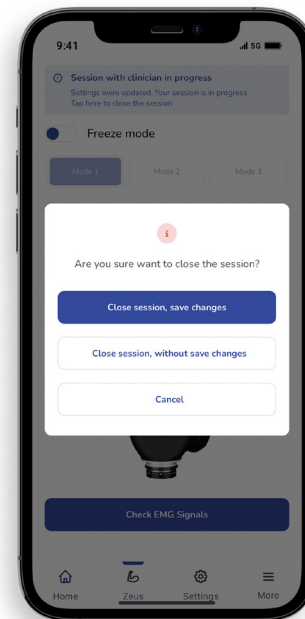




- After the session starts you should allow the Aether Digital Platform Mobile to record audio and video by clicking “Allow” on the pop-ups. On the bottom of the screen are control buttons:

- Mute/unmute microphone
- Turn on/off camera
- Chat
- Settings
- Disconnect button

- After the session is done and a new configuration has been created, you should confirm it by tapping “Save”. You will be redirected to the “New hand configuration” screen. If declined, the configuration will be stored in a ticket.



18. REMOVING SOFTWARE FROM USE

Android user version 13 or higher:

1. Open the Google Play Store app.
2. At the top right, tap the Profile icon.
3. Tap Manage apps & devices Manage.
4. Tap the name of the app you want to delete.
5. Tap Uninstall.

Deleting apps from your iPhone

You can easily delete apps from your iPhone. If you change your mind, you can download the deleted app again.

For deleting the app you can do any of the following:

- Deleting an app from the Start screen: Touch and hold an app on the Start screen, tap Delete app, then tap Delete from Start screen to leave it in your app library, or Delete app to remove it from iPhone.
- Remove an app from the app library and Start screen: Touch and hold an app in the app library, tap Delete app, then tap Delete. (See Finding an app in the app library).

If you change your mind, you can re-download apps that have been removed.

19. TROUBLESHOOTING

In case of questions please contact your clinician. In case of any bugs or problems, you should send an e-mail to info@aetherbiomedical.com.

In the email message you should specify a question or a problem that has occurred, preferably describing what led to it, what is happening and what your desired outcome would be.

Screenshots as attachments can be included to increase the speed in resolving a problem.

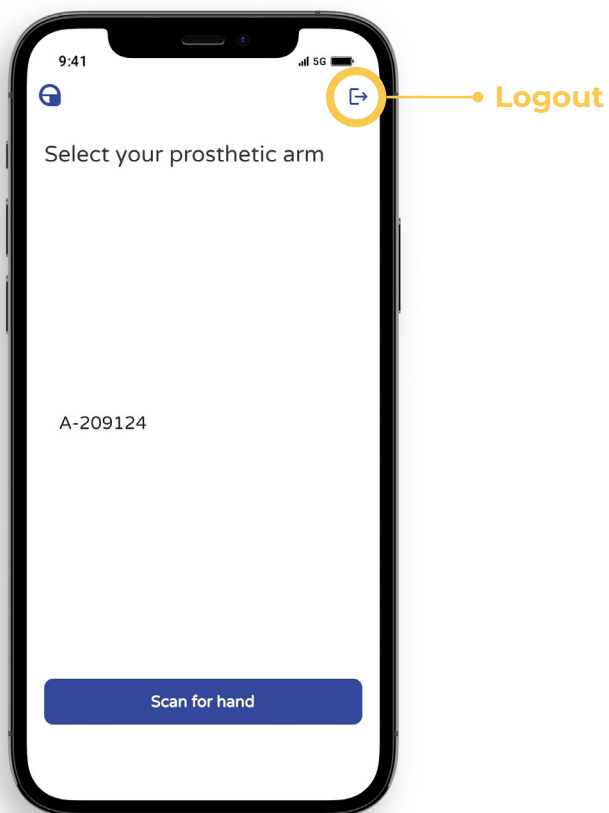


Tickets FAQ:

- I have made changes to the device during remote session, but accidentally declined them at the end, what happens in that scenario?
 - When patient declines changes after remote session, configuration in the device is reverted to the last one used, changes are not lost however. After the session, a ticket containing all the changes is sent to the patient, so that they can install them at later time. Only last sent ticket with changes can be used to do this, previous ones will be closed, but still visible in inbox.
- What exactly happens when I accept changes sent to me in the ticket?
 - The changes sent to you by the clinician will be installed to the device and saved in the database.
- I have installed the configuration sent by clinician, but I don't like it, what can I do about it?
 - You will always have an option to go back to last used configuration, by using "Restore previous" button present in the same ticket. Also you can ask your clinician, to restore device's configuration to any other previous configuration, if there would be a need for that.
- Does the ticket sent after remote session, work exactly the same as the ticket sent during async configuration?
 - Yes, they function in exactly the same way. The only difference is that after remote session, you will be presented with a choice to install changes immediately, without the need to go to the inbox.
- Can I go back to any previous configuration by myself?
 - No, as a patient, you can only go back to last used configuration using "Restore previous" button in the ticket. Clinician can restore configuration to any point in device's history though.
- The application does not install or update properly, What can I do about this?
 - Make sure phone has enough available storage for app.
 - If the problem is not solved, try downloading application again and turn your device off and on.



- I can not see the bluetooth ID
 - Try to logout of app and login again.



20. SECURITY

Application should be operated from a secure device. It is recommended to close the application when you are not using it or you are away from the device. Remember to never share your password to your Aether Digital Platform account.

21. COMPATIBILITY

Aether Digital Platform Mobile is compatible with Zeus V1 hand A-01-L/R, A-01-L/R-T, A-01-L/R-TS-S The Aether Digital Platform and Zeus Configurator.

22. REPORTING

Any serious incident that has occurred in relation to the device should be reported to Aether Biomedical Sp z o.o. via office@aetherbiomedical.com and the competent regulatory authority of the country in which you are resident.

23. OTHER INFORMATION

- Aether Biomedical declares that they meet appropriate European standards for design, manufacture and supply of prosthetic products and user software under CE mark. Continued compliance with the standard is monitored by a program of internal and external audits.
- All individual products are marked indicating that they comply with the requirements of the Medical Device Regulation 2017/745.

SYMBOLS



This CE mark indicates the product conforms with the essential requirements and provisions of Medical Device Regulation 2017/745.

Refer to operating instructions



This mark indicates the user should read the operating instructions before use.





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