



MonicOra Server API Manual

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MOVIDA Demonstration
ORA2 Smart Glasses
Monicora
Connectivity & Server



Quickstart for first use



1) Setting up the server

- a) Run RSAKeyGenerator once. It will generate two RSA key.
- b) Put opt_privKey.key with MonicOraServer.jar in the same folder.
- c) Run MonicOraServer (you can also use `java -jar MonicOraServer.jar` in command line so it generate debug messages).
- d) Close the server. You know have generated config_MonicOra.txt and MonicaServerRes.
- e) Edit config_MonicOra.txt (keep the formatting in place): change PORT and IP according to your network.

2) Setting up the App

- a) Install the app according to the How_to_install_the_app.pdf (ADB or Android Studio)
- b) Check that Wi-Fi is connected
- c) Check that Location is activated
- d) Run MonicOraAppConfigurator.jar
- e) Change the IP and PORT value, if using the ACGAM R1 on the glasses, leave default value for the others field.
- f) Connect the glasses over USB, and on the glasses select in the top-left corner « Activate USB ».
- g) Press Make Config and save it inside the Document folder of the glasses.
- h) Put the opt_pubKey.key generated in 1)a) inside the Document folder of the glasses.

3) Run the Server and the App.

- a) Check on the splashscreen if the defined name and the IP/PORT is correct.
- b) Check possible error message and report to the next slide.



Error handling – FAQ Server

- How can I know my IP / PORT ?

- Running on a local network, your IP can be accessed in various way. It usually start with 192.168. or 172.16. On windows, Press Windows Key + R, type cmd, execute. Inside the console, type ipconfig. On linux, type ifconfig on a terminal. The port represents somehow where the data will be delivered on this IP, some firewall prevent some port to be used, or some application can already use this port. You can choose default (9999) or select another one.

- I can't get the MonicOraServer.jar starting :

- This can be caused because you don't have permission to write/read files or because there is no opt_privKey.key file within the folder. Start the java application through command line to see the logs (java -jar MonicOraServer.jar).

- The error « Can't init the server » is shown:

- This error happens when the app can't bind the server on the given parameter : Check that the IP/PORT values are OK.



Error handling – FAQ App

- **Getting the NO ENCRYPTION KEY :**

- This could be caused because the permission to access storage directory is not set or because the opt_pubkey.key file is not found.

- **Getting the Not Connected :**

- The app can't connect with the server. Check the IP in the config file, the IP/PORT of the Server and network infrastructure configuration (ping for visibility).

- **The server zoom into the sea on the map :**

- Check that GPS is turned on on the glasses. Set the option to "High".

- **Getting the BAD ENCRYPTION KEY :**

- Either the app has closed during initialization, either the public key is not related with the server private key.



THANK YOU!



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