



**MonicOra Server API Manual**

**25/06/2018**

MOVIDA Demonstration  
ORA2 Smart Glasses  
Monicora  
Connectivity & Server



- 1) Available features
- 2) How to use the API
- 3) A basic example



# 1) Available features for the Server

- Connect with the APP(LAN/WAN) through ciphered communication (RSA+AES) through TCP.
- Receive and send text messages (the app send configurable predefined messages, with little icon to quickly understand the action)
- Receive and send audio messages (.3gp)
- Receive and send video messages (480p)
- Every type of sent messages (video, text ...) are located (longitude, latitude, elevation, % accuracy of signal), timestamped, and the azimuth (North, West ...) of when the file has been sent is saved.



## 2) How to use the API

- The API is delivered through a .jar file, containing the library and the Javadoc.
- The Javadoc is also available inside the MonicOra\_API\_Server\_Javadoc folder (index.html)
- This document, within the next section.



## 2) How to use the API

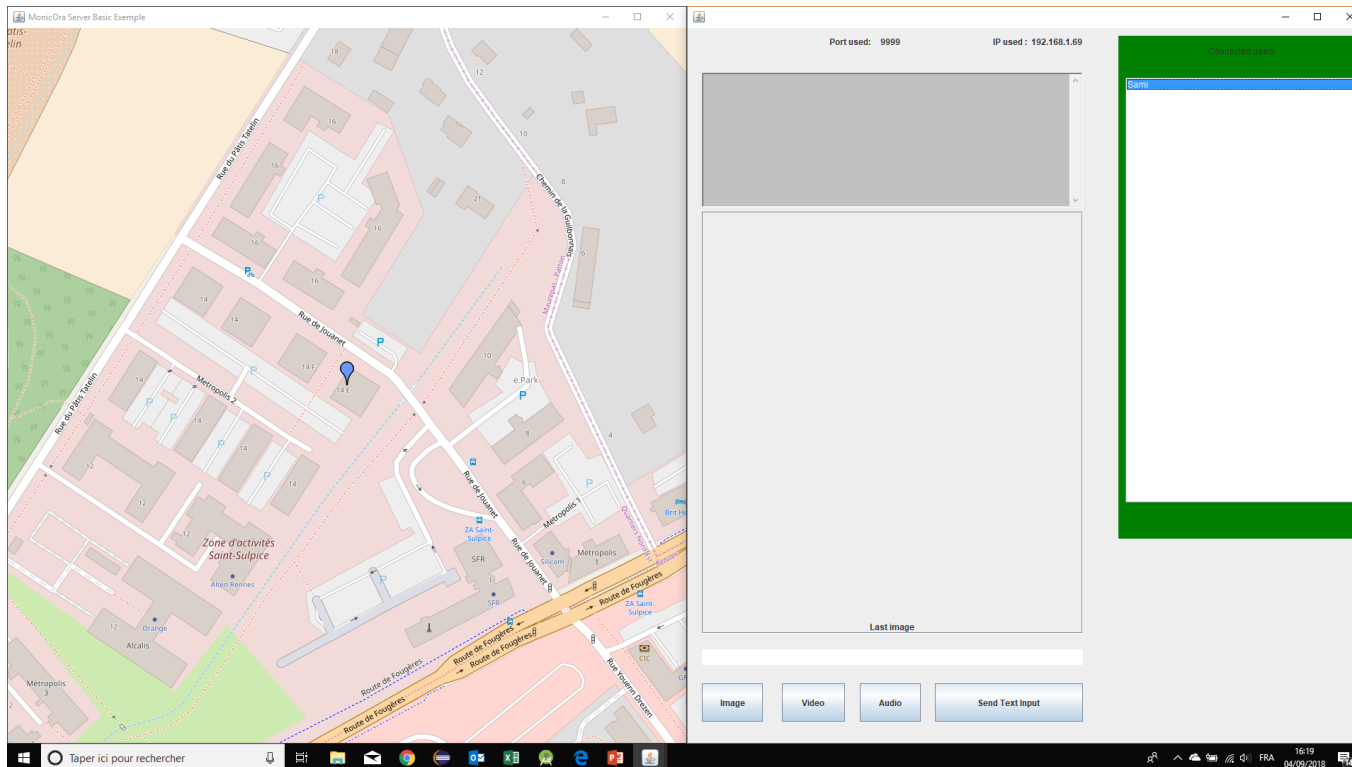
Step to setup the server :

- 1) Import the .jar file to your project.
- 2) Put the « config\_MonicOra.txt » and a private key « opt\_privKey.key » inside the directory of the project.
- 3) Change the config\_MonicOra values if needed, IP and PORT will be used when no argument are sent during the creation of the server instance.
- 4) If no config file is available, one will be created. If no private key is found, then an uncatchable exception is raised.
- 5) Use « createServer » and « open » methods to create a server.
- 6) Bind a Listener that will act as a callback for incoming messages
- 7) Send messages using ServerConnection object through the « getConnectedDevices » method or creating your own implementation using connection/deconnection
- 8) Close the server when needed.



# 3) A basic example

- One simple implementation done using WindowsBuilder and the MonicOraAPI is shown inside demo folder (called MonicOraServer).
- Source code is available. But only a part of the project concern the MonicOra implementation.



- Select a user in the list from the right panel. Then you can either write a message or select a file to sent.
- The middle panel show the lastest image sent from all users.
- Ressource are available in MonicaServerRes folder



# THANK YOU!



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