



# GSMA

# Open Gateway

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© Igor Coelho, 113532  
© Luis Godinho, 112959  
© João Capucho, 113713  
© Zakhar Kruptsala, 114478



# Project Team

Filipe Sousa

Testing

[filipepinasousa@ua.pt](mailto:filipepinasousa@ua.pt)

Luís Godinho

Documentation

[luis.godinho13@ua.pt](mailto:luis.godinho13@ua.pt)



Igor Coelho

Team Manager

[iavcoelho@ua.pt](mailto:iavcoelho@ua.pt)

João Capucho

Architecture

[jcapucho@ua.pt](mailto:jcapucho@ua.pt)

Zakhar Kruptsala

DevOps

[zakhar.kruptsala@ua.pt](mailto:zakhar.kruptsala@ua.pt)

# Advisors

Rafael Direito

Main Advisor

rafael.neves.direito@ua.pt

Diogo Gomes

Co-Advisor

dgomes@ua.pt

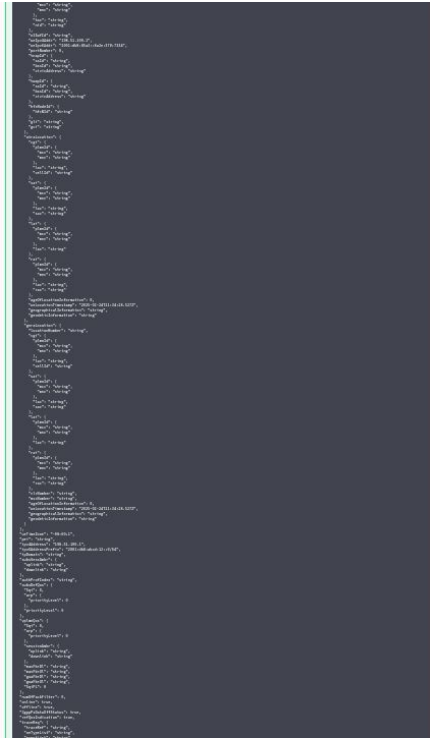
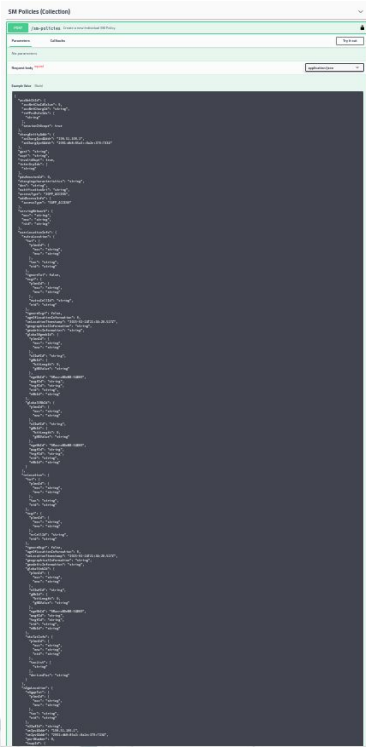


# Context

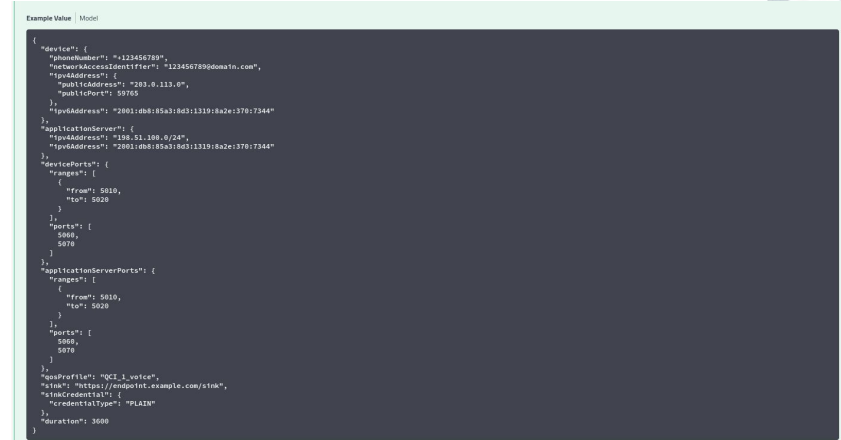
- ◎ Introduction of advanced capabilities in 5G Networks
- ◎ Interest in providing such capabilities to customers
- ◎ Need for developer centric interfaces



# Why developer interfaces?



3GPP API



Open GSMA Gateway API

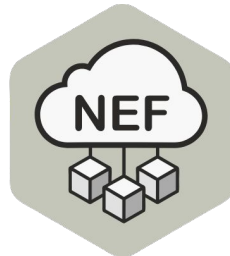
# Use Cases

- ◎ Network integration
- ◎ Quality-On-Demand
- ◎ Fraud Detection
- ◎ Fleet Management



# Goals & Expected Results

- ◎ Deployment of an SMS Center on IT's 5G infrastructure
- ◎ Provide some of the APIs backed by IT's 5G infrastructure
  - An API for One Time Password validation by SMS
  - APIs for controlling the quality of service on demand
  - APIs for obtaining the device status within the network
- ◎ Provide location related APIs through an Open Source emulator
- ◎ Explore these APIs through the implementation of some Demos
- ◎ Explore offering the gateway as a Service (XaaS)



OpenSlice  
by ETSI

# Related Work

## 3GPP OpenAPIs

- ⦿ Standards for APIs of the operator's 5G infrastructure
- ⦿ Most aren't open to third-party developers
- ⦿ Highly complex APIs that require domain expertise



## TMForum ODA

- ⦿ Business framework to transition to cloud-native and service-based offerings
- ⦿ Includes APIs for Service ordering and lifecycle management
- ⦿ Can be explored to implement a GSMA Open Gateway as a Service modality





# Calendar

11/03

Implementation and deployment of a prototype to validate the architecture, implementing the OTP SMS API.



25/03

Implementation of the device information family of APIs to further validate the architecture. Implementation of a Demo to showcase the APIs.



13/05

Implementation of the communication quality and location families of APIs. Concluding the expected APIs to be implemented.



03/06

Final polishing work with bug fixes, documentation and final deployment. Preparation and showcase of a comprehensive demo.



A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines. Some nodes are highlighted with blue circles or dots, while others are grey. The lines are thin and grey, creating a mesh-like structure.

# Thanks

If anyone has questions, we are happy to answer!

Further information:

<https://atnog.github.io/gsma-open-gw-apis/>

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a network of nodes and lines, with several nodes highlighted in blue. The overall style is clean and modern, using a light blue and grey color palette.