

GSMA Open Gateway



More details in our microsite:

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

Context

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



GSMA™



tmforum

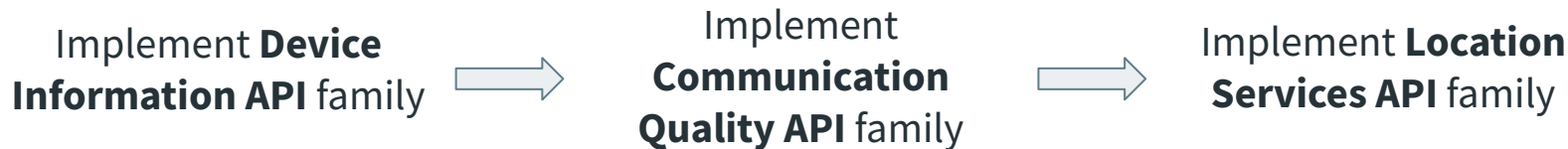


CAMARA
THE TELCO GLOBAL API ALLIANCE

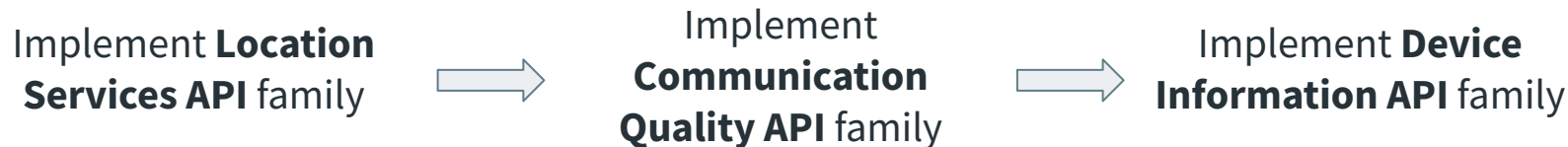


Calendar Changes

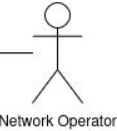
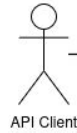
Original Implementation Order



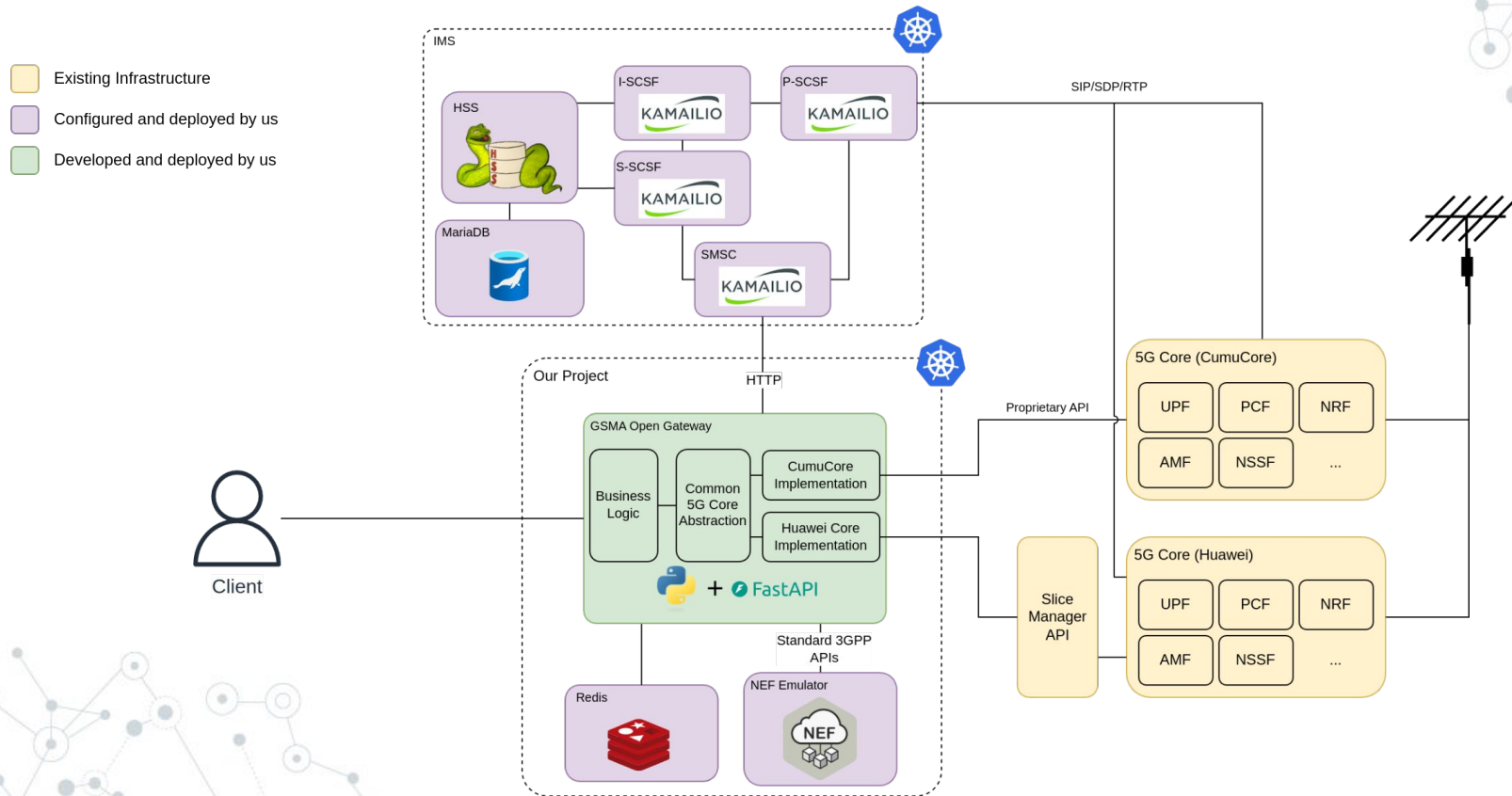
New Implementation Order



Use Cases

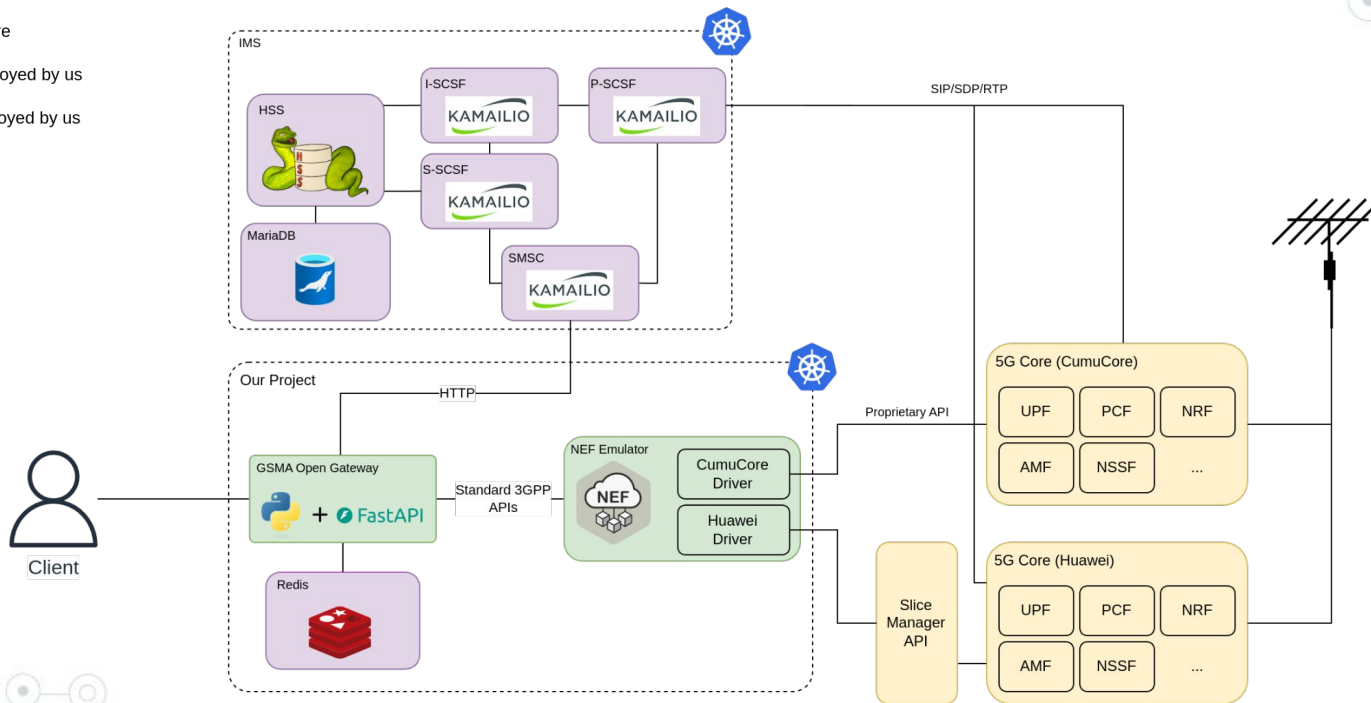


Architecture: Last time

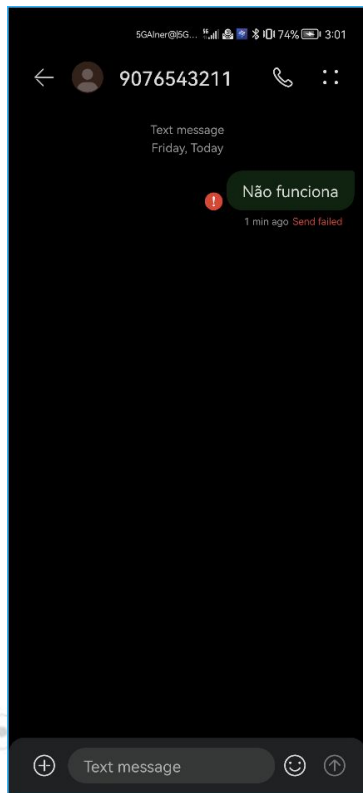


Architecture: now

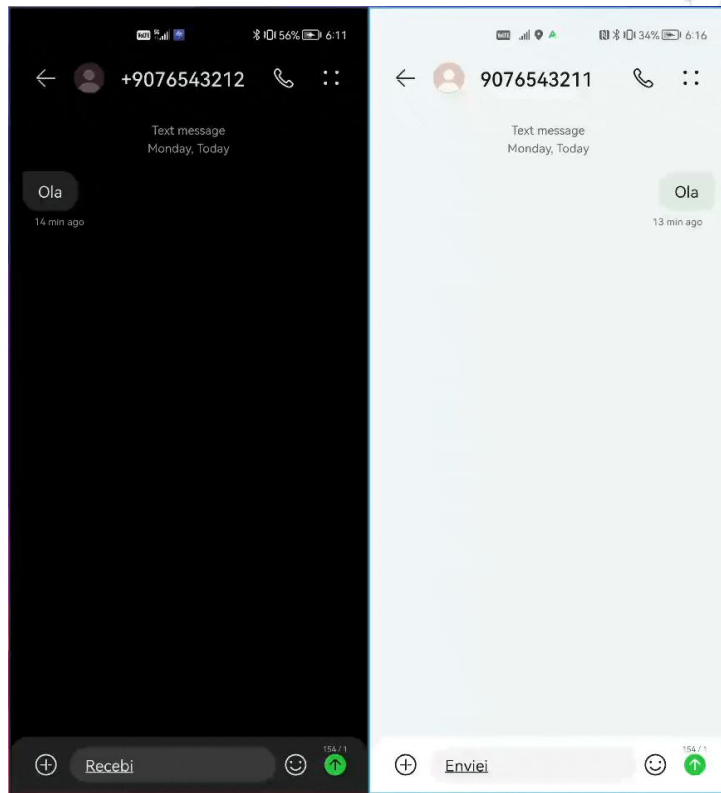
- Existing Infrastructure
- Configured and deployed by us
- Developed and deployed by us



Demos: SMS

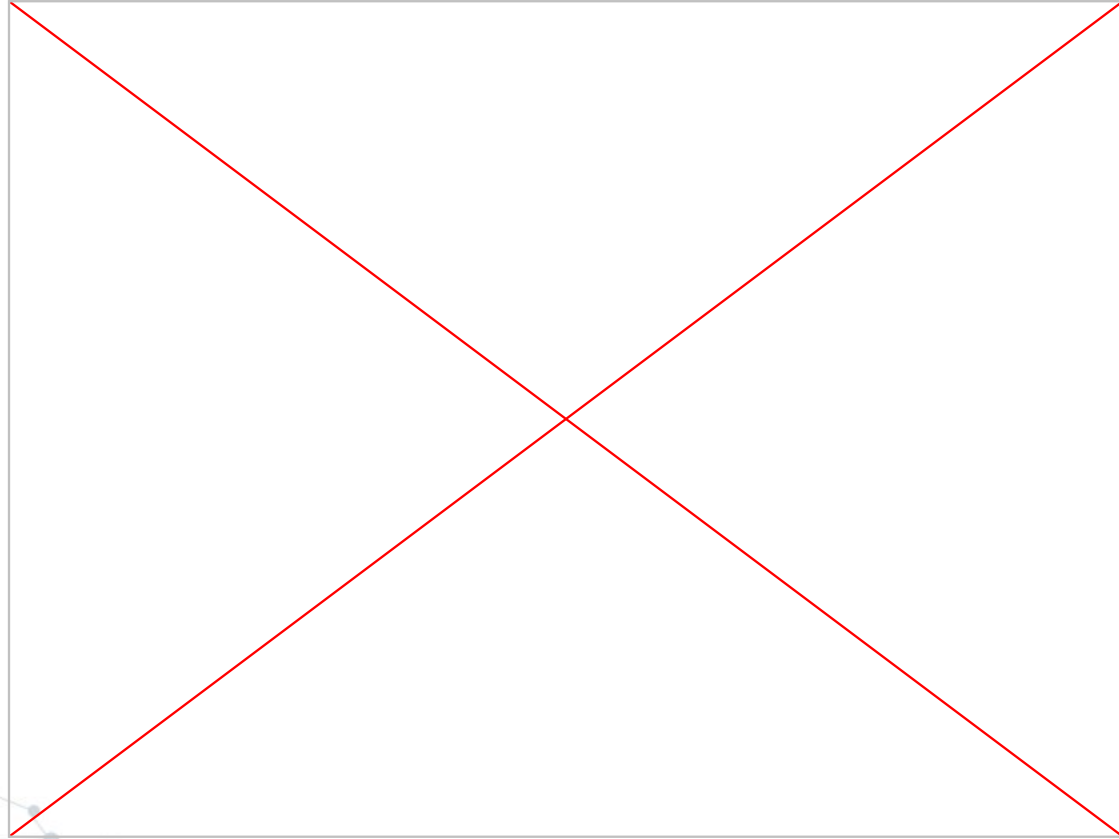


Antes do início do projeto

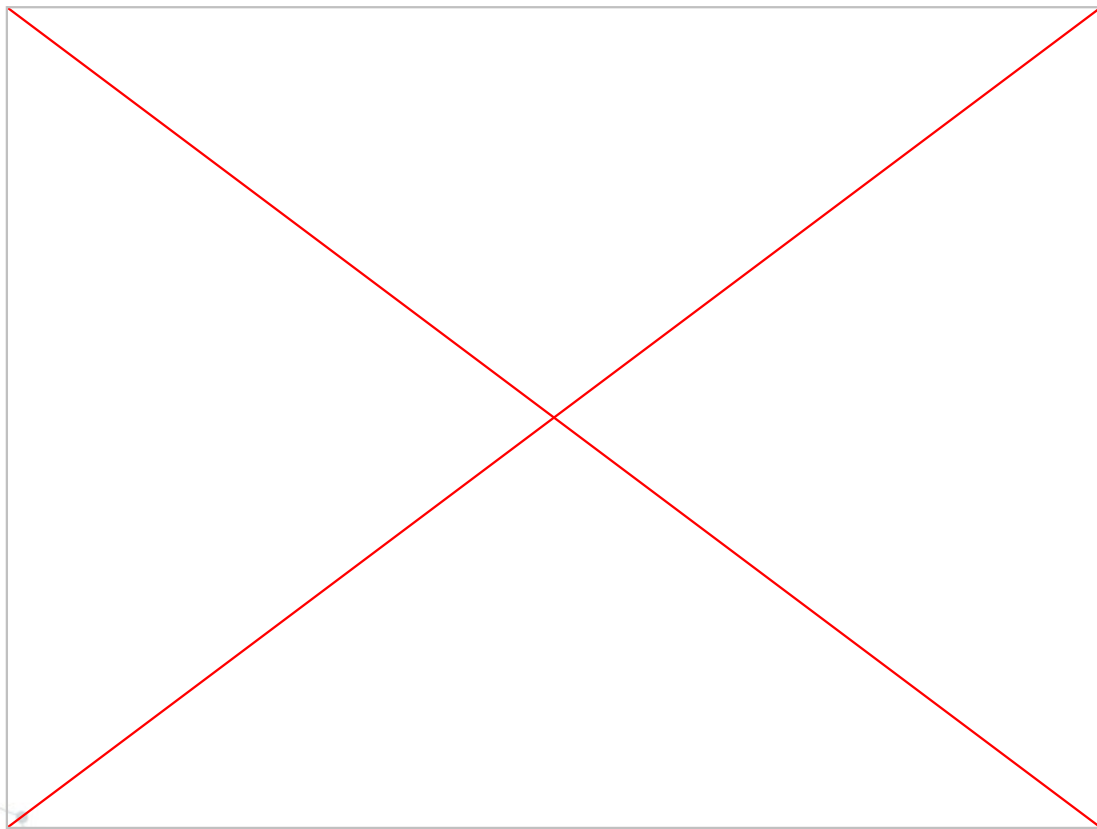


Após a implementação do IMS

Demos: SMS OTP



Demos: Location APIs



Related work



Functional Requirements

The APIs should:

- ⦿ Allow subscription to location based notifications
- ⦿ Allow the retrieval of the population density in a given area
- ⦿ Allow developers to define Application Profiles for Quality of Service
- ⦿ Allow retrieval of existing Quality of Service profiles on a network.
- ⦿ Allow phone number verification and validation through SMS OTPs
- ⦿ Allow checking whether a given device is available on the network
- ⦿ Allow subscription to device state change notifications

Non-Functional Requirements

The APIs must:

- ⦿ Maintain consistent 100ms response times as users/data volume increases
- ⦿ Guarantee support for at least 10 requests per second
- ⦿ Have a high reliability level, as in over 99.9999%
- ⦿ Have a high availability, such as 99% uptime

Additionally Maintainability, Portability, and Usability concerns should be met