

--Demo--

**Bringing a 3GPP-compliant Core to Magma:
Orchestration of OAI 5G Core Network**

Fall 2022 Openairinterface North American Workshop

- Rohan Kharade, OAI

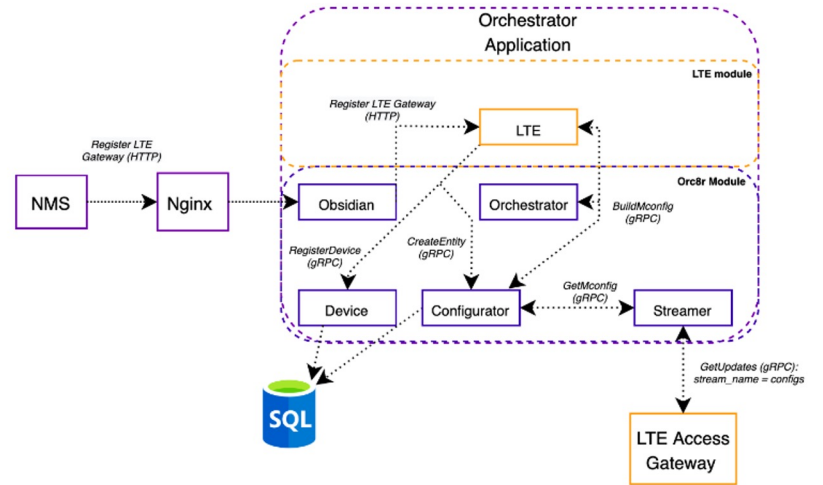
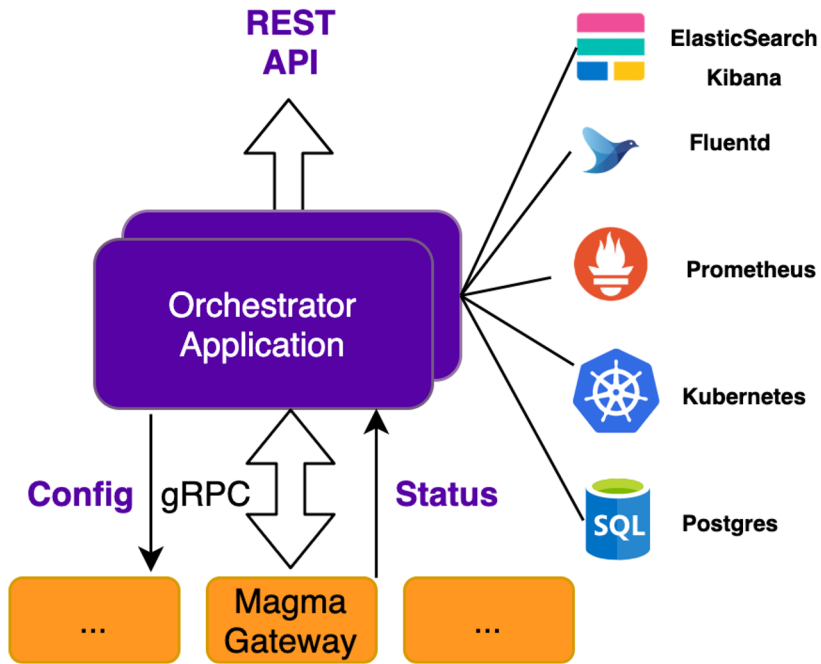
--Demo--

Bringing a 3GPP-compliant Core to Magma: Orchestration of OAI 5G Core Network

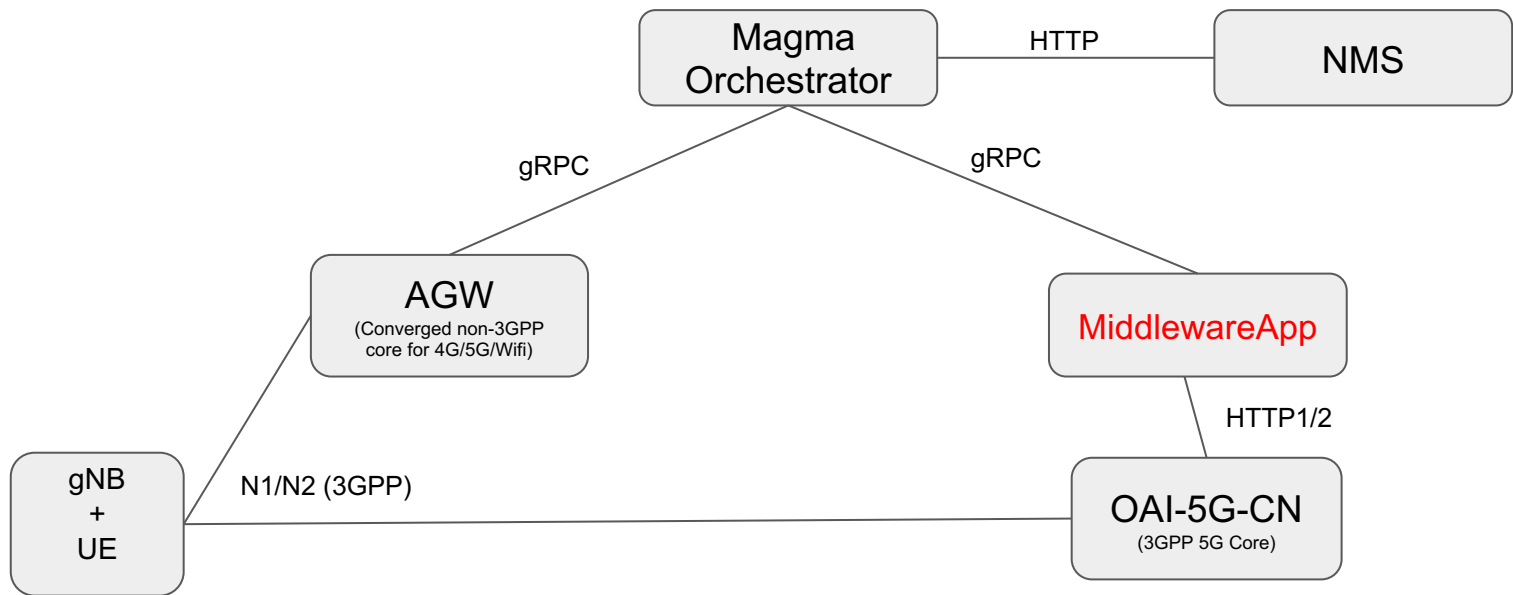
Fall 2022 Openairinterface North American Workshop

Objective:

- *Integrate 3GPP core network in to Magma framework*
- *Orchestration and management of OAI 5G Core Network*



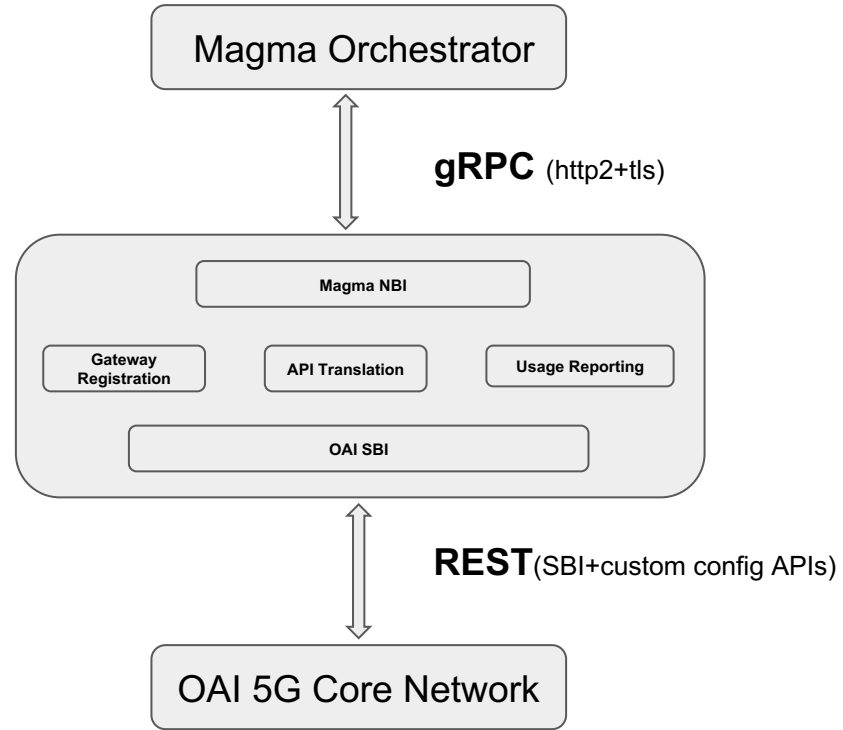
Magma Orchestrator overview and internals



Integration of OAI core network to Magma Orchestrator

Functions of middlewareApp

- Register network and gateway at Orchestrator
- Open gRPC stream channel for updates e.g. config, subscriber etc.
- Translate NBI message and corresponding SBI calls to OAI core network
- Maintain subscriber's usage reporting and provide to orchestrator



Overview of MiddlewareApp Internals