
Mosaic5G Roadmap and RIC activities

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In a nutshell

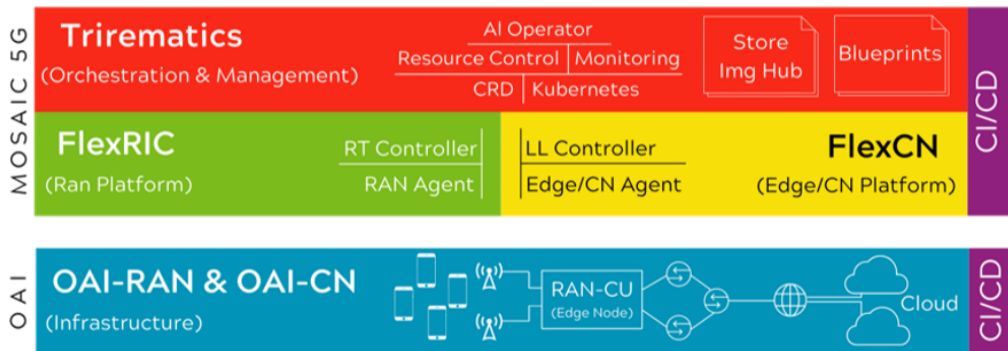
- ▶ Founded by Eurecom and launched in 2016
- ▶ Merged with OpenAirInterface in May 2021

Objectives

- ▶ Provide an ecosystem of open source 4G/5G service platforms, reusable components (service models, xApps, ...) and use-case descriptions (deployment blueprint)
- ▶ Provide an SDK to design and develop service models and xApps to compose a range of specialized 4G/5G network-service platforms tailored to divers use-cases

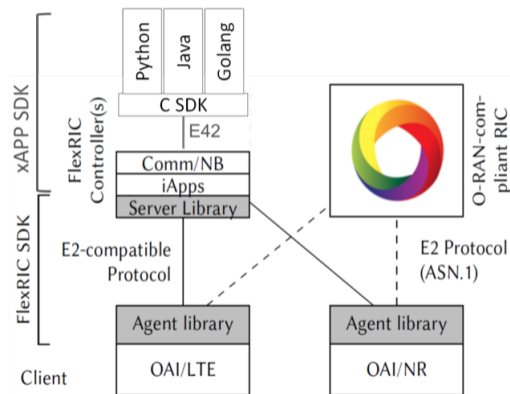


Mosaic5G Stack



FlexRIC: Flexible SD-RAN Platform as SDK

- ▶ FlexRIC is an O-RAN-compliant E2 Agent, near-RT RIC, and xApp SDK
- ▶ It provides a number of service models
 - ▶ E2SM-KPM (E2SM-RC, E2SM-CCC to follow)
 - ▶ Custom: E2SM-RRC, E2SM-PDCP, E2SM-RLC, E2SM-MAC, E2SM-SC
- ▶ Designed to be ultra-lean (highly efficient for resource-restricted UC)
- ▶ Current release v1.0.0



FlexRIC: Comparison to O-RAN RIC/ONF SD-RAN

Criteria	O-RAN RIC	ONOS SD-RAN	FlexRIC
Zero Overhead	No	No	Yes
Enc/Dec	ASN.1	ASN.1	ASN.1, FB, Plain
E2AP	v2.0*	v2.0	v2.0*
Multi-Lang	Yes	Yes	Yes
E2 Nodes	RadiSys, others	OAI, SRS, RadiSys	OAI, SRS, AMR
Service Models	Embedded	Embedded	Pluggable

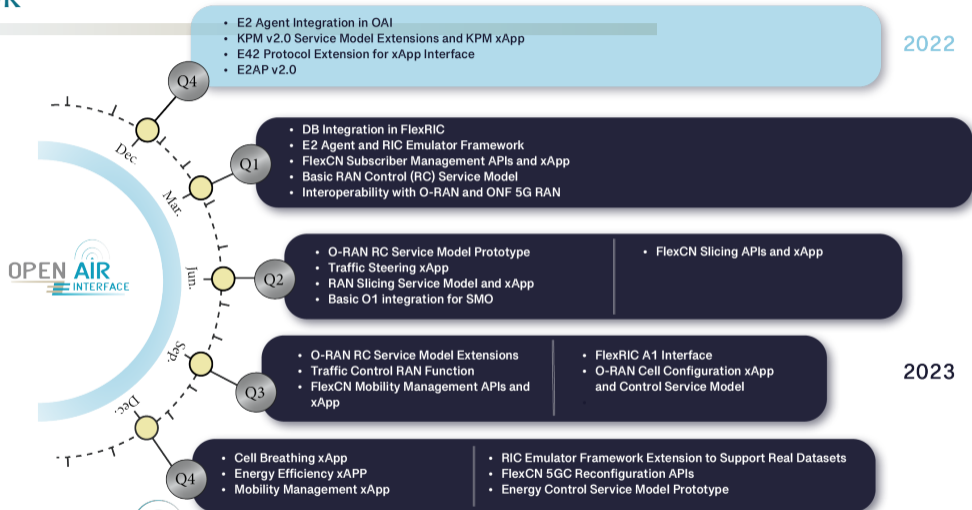


Short-term

- ▶ Upgrade to E2AP v2.0
- ▶ **Merge of E2 agent to openairinterface5g repository**
- ▶ Interoperability with O-RAN RIC and ONOS SD-RAN
- ▶ Introduction of KPM v2.0 and interoperability with kpimon xApp(s)



Outlook



Thanks!

Come and see me at the FlexRIC demo!

<https://openairinterface.org/mosaic5g/>

<https://mosaic5g.io/>

<https://gitlab.eurecom.fr/mosaic5g/flexric/>

