



Cloud-Native Multi-Vendor 5G Open RAN Blueprint In Action

5**G**

BubbleRAN
Osaka Meeting on 20/06/2023



Why BubbleRAN?

3 Facts

- (1) A vendor-neutral, open, and trustworthy telecom network accessible to All
- (2) Fully software-based 4G/5G networks and its cloud-native delivery as a service
- (3) Emergent open ecosystem, where everyone can join, innovate and make benefits

We believe in Open RAN/O-RAN

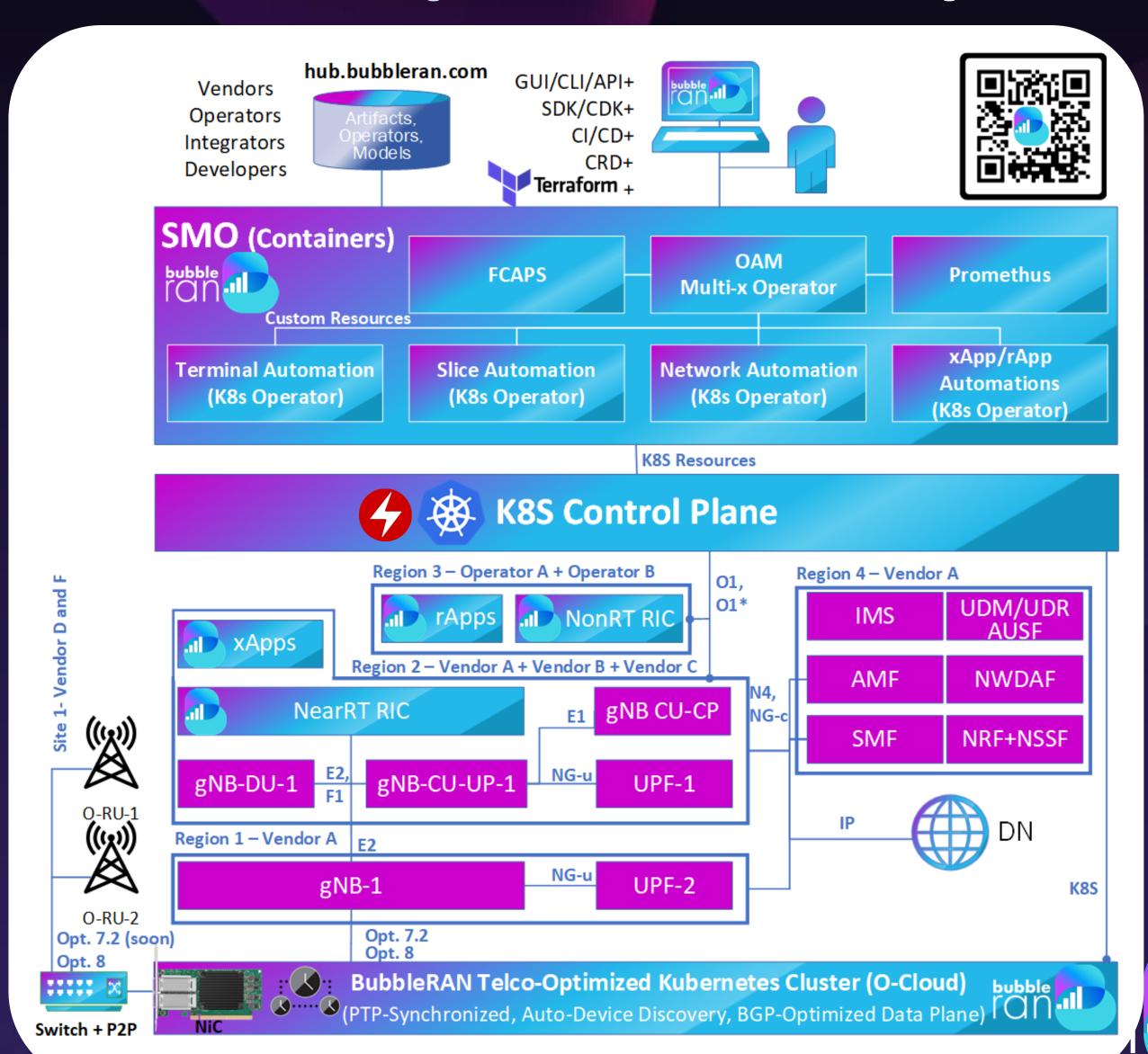
(A collective action in building an open telecom network that complies to 3GPP)



Cloud-Native Multi-Vendor 5G Open RAN Blueprint

Feature set

- Cloud-Native Automation: Infra & WL
- Multi-x Support: Vendor, version, RAT, RF
- Consistently Reproducible and Repeatable
- No performance loss and Low Overhead
- Agile, Scalable, and Extendable
- Intelligent and Observable
- Declarative Design and Idempotent Operations
- Resilient and Fault Tolerant
- Green and Sustainable
- Secure and Isolated Workloads



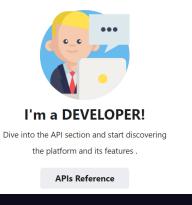
Cloud-Native Multi-Vendor 5G Open RAN Blueprint

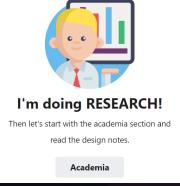
MWC 2023 Multi-Vendor Cloud-Native 5G Open RAN Demo



MX-Operator/OAM Ops







Step	Operation	Description	Day
0	infra	Extract provisioned resources in the cluster including RUs	0
1	blueprint	Design/describe an E2E network: slice, access, edge, core	0
2	install	Deploy the network blueprint	1
3	observe	Check the status and readiness of the deployed network	1
4	test	Measure/monitor the E2E performance	2
5	extract	Get information about network: log, config, relation	2
6	Remove	Delete the deployed network	2
7	cic	Embedded workload commands	2
8	upgrade	Roll out any operation: (re-)config, upgrade	2
9	Scale	Replication a service or a workload	2
10	slice	Create a 3GPP slice	2
		bub	ble

Video Demo

https://youtu.be/3pRuP6nldbw





Observations

- Auto-resource discovery: Resources of the infrastructure is automatically discovered and exposed to the user by a simple command.
- Readiness: Even with the agile deployment process, Network readiness indicates 99% service assurance, verifiable via observability.
- Simplicity: No expertise of cloud is required to Operate the network!
- Automation: Automated and agile lifecycle operations and controls
- Scalability: Scalable deployments in a distributed and heterogeneous environments
- Zero down-time: Reconfiguration on-the-fly across the whole deployment while retaining service continuity
- UX: Adherence to the current user experience by exposing native workload commands





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ThankYou

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Linkedin:

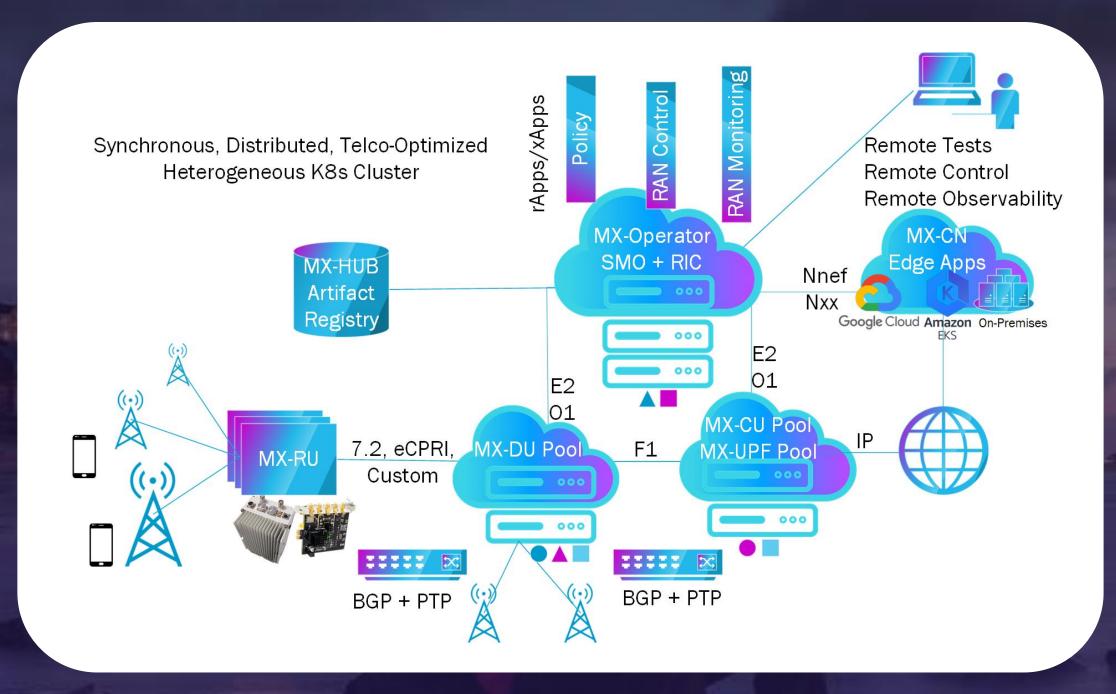
https://www.linkedin.com/company/bubbleran

Open RAN Studio Mini-Series:

https://bubbleran.com/media/news.8/



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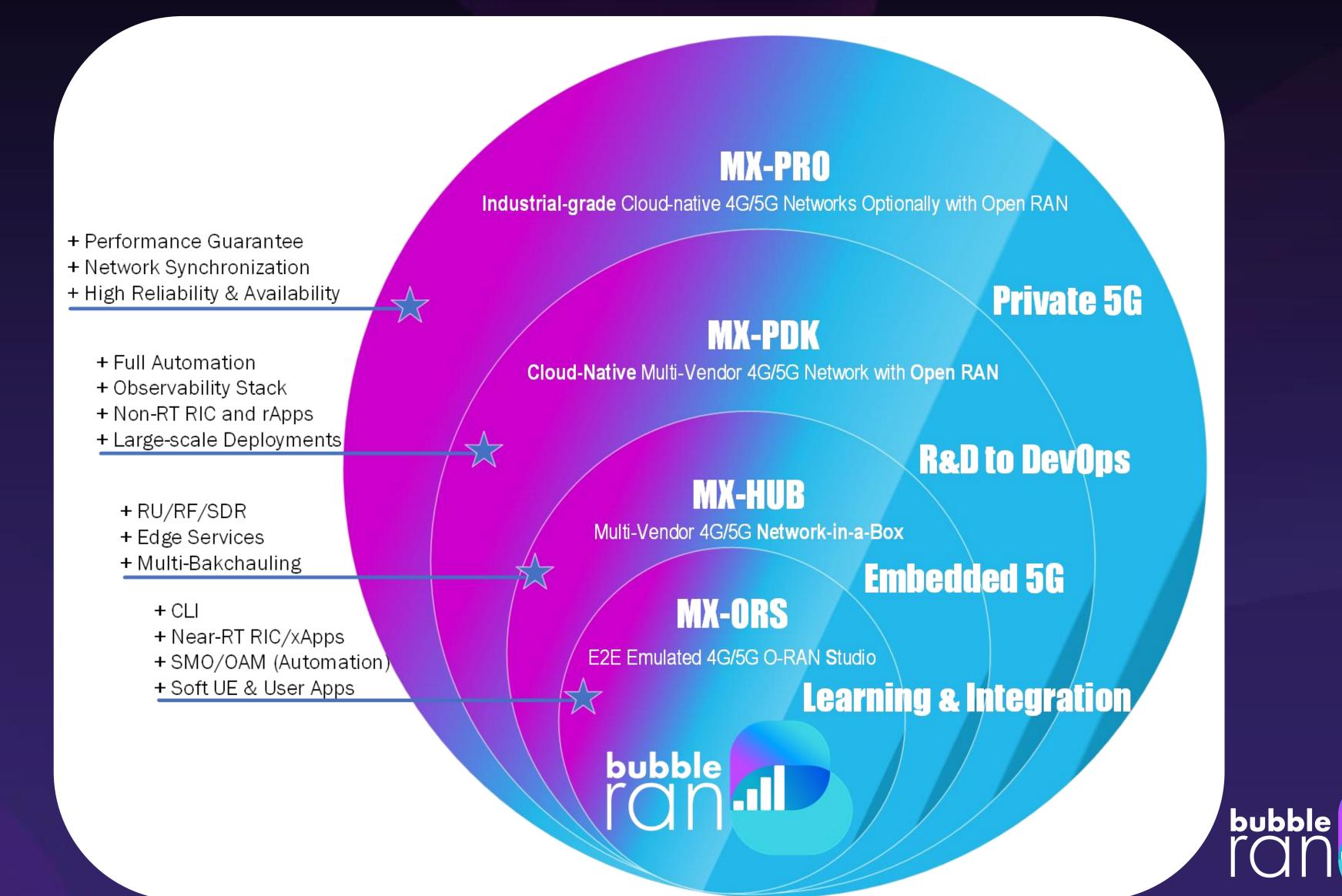




We are a software comnay dedicated to helping organisations telecom, seamlessly build, operate, and automate their private 4G/5G infrastructure by consolidating open RAN and cloud-native architectures with a green MANO/SMO offering more than 100x efficiency and delivery cycle with lower carbon footprint for a wide range of R&D and enterprise use-cases from the lab to the production environment.

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BubbleRAN Product Family



BubbleRAN Telco DevOps Product

100x Business and Network Agility and Flexibility

