

# 2023-11 - 5G SBP: Orchestration of OAI Core and Amarisoft gNB with EMCO

## Short Description

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POC showing orchestration of critical components using Core & gNB for 5GS network testing and research.

## Topic Overview


Open Air Interface (OAI) is a software development building RAN and Core technologies and has begun collaborating closely with the O-RAN Alliance Software Community (OSC). Amarisoft is a telecoms software vendor who is donating a gNB (gNodeB) for testing purposes. The deployment and orchestration of OAI Core Network and Amarisoft gNB for 5GS network testing and research is a further step in E2E 5G orchestration and management that represents a future path for the 5G SBP. But this testing and research is a complex endeavour that demands streamlined, efficient, and scalable management.

To explore this further, we've set up a demo of the critical components in a lab environment at the University of New Hampshire (UNH) lab environment using the Edge Multi-Cluster Orchestrator (EMCO) project to simplify the provisioning, scaling, and monitoring of these components. The UNH lab requires a flexible orchestration system to seamlessly manage OAI Core Network and Amarisoft gNB resources. This solution enhances the lab's capability to drive advancements in 5GS technology, network slicing, and emerging applications. In this demo you'll see how the environment was set up and what insights the POC is hoping to achieve as we continue to push the state of the art in open source networking capabilities.

## Session Type

X	Interactive technical presentation and/or capability demo
	Pre-Recorded technical presentation and/or capability demo
	Live / hands-on technical training
	Community process, governance or collaboration development
	Real-time troubleshooting, bug-scrub or similar
	Other (please describe)

## Slides & Recording

 **YouTube**

Following the event session recordings may be uploaded to [our YouTube Channel](#) at the full discretion of LFN staff.





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Notes From Session (as appropriate)

Action Items (as appropriate)

