

Aerial RAN CoLab – OTA Full Stack Innovation Blueprint

Launchpad for Advanced Wireless Developers – Gateway to Developer Innovations and Extensions

- COTS infrastructure composed of compute, virtualization, radios, fronthaul networking, precision timing, accelerators.
- Virtualized RAN workloads from NVIDIA and Open Air Alliance
- Data Lake + pyAerial for Al/ML frameworks : RF / IQ data + FAPI
- 3GPP Release 15+ O-RAN 7.2 split P5G on-prem lab network
- Reference OAI CI leverage for developer integration workflow
- Developers can deploy AI/ML models for and on the radio access network using OSC radio intelligent controller by following Northeastern OpenRANGym tutorial
- NVIDIA NGC APIs for Sterling K8 service orchestration of network functions
- NVIDIA SDK Manager development environment setup automation
- Developer contributions through extensions and plugins for community benefit and to accelerate pace of innovations welcome!

