East Coast Bedminister Open Lab CI/CD

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Vision

- Where?
  - The OSC East Open Lab is hosted by AT&T in Bedminster, NJ.

- Why?
  - The purpose of the Bedminster Lab is to provide an end-to-end environment where an operational RAN using open-source software can be demonstrated.

- Focus?
  - The SMO and its activities for de-coupling, based on the O-RAN specification defined by working group 1 (WG1).

- Future?
  - Expand O-Cloud with a three-server cluster
  - Deploy a VIAVI TMLite O-RU Emulator
  - Deploy a Keysight O-RU Emulator
  - Deploy a Keysight RIC Tester
  - Deploy a continuously running SMO instance for continuous delivery (CD) and continuous testing (CT)
  - Interconnect the Bedminster and San Jose Labs to enable the use of the RIC Tester with RIC Apps
  - Interconnect the Bedminster and Taiwan Labs to enable SMO NF deployments to the O-Clouds.
  - Interconnect with at least one university laboratory where a 5G core (5GC) instance exists.
  - Interconnect with at least one OAI Lab and demonstrate the deployment of an NF to an O-Cloud in that laboratory.

- Current Status?
  - Lab is temporarily unavailable due to a laboratory relocation and subsequent supply chain issues. Once those are resolved the end-to-end (E2E) capabilities will be restored.
How to get Access

1. Identify OSC Project to contribute to
2. Align work with PTL for the project
3. Identify any additional resource needs
Target: Exemplar Cloud Site

[AIML] AI/ML Framework
[SMO] SMO+
[OAM] RNOAMF
[RICAPP] TApp
[NRTRIC] NRT-RIC

[INF] AIO-OCLUSION
Location: Bedminster

[ODUHIGH] OSC O-DU High
[ODULOW] OSC O-DU Low

[OAI] O-CU
[OSC] Radisys O-CU

[INF] AIO-CU

[INF] AIO-DU

[INF] RIC+ DMS

[INF] RIC App

[INF] NRT-RIC

Keysight O-RU

User Remote Access via VPN

Hierarchical

User Plane

Control Plane

OAM Plane

Viavi TM500 (O-RU)

GM-PTP

OSC Lab Interconnect via VPN