

OTIC East (OTIC/E) Candidate

Status Update

O-RAN/ONAP/OSC PoC

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COSMOS Team: Rutgers, Columbia, and NYU in partnership with New York City, IBM, Silicon Harlem, City College of New York, U. Arizona

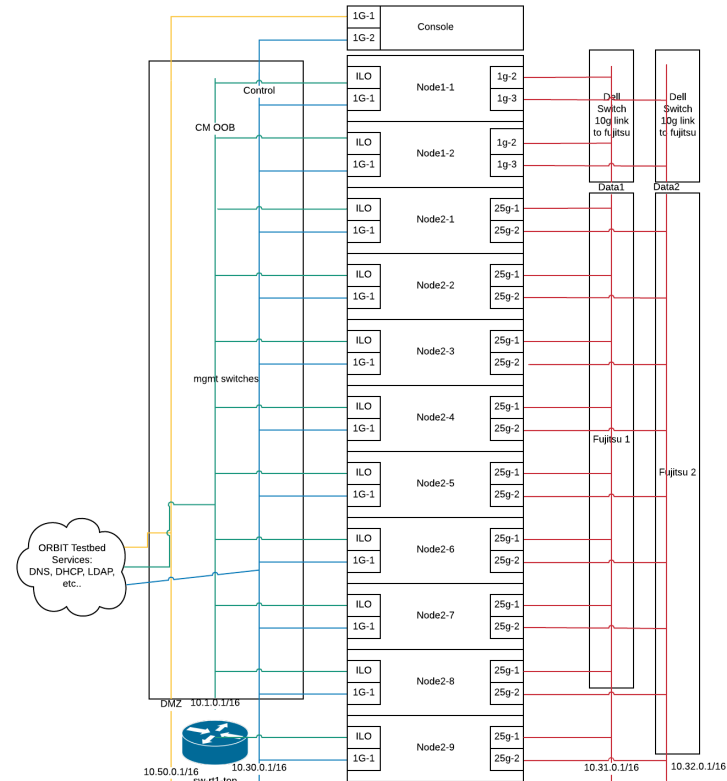


**Platforms for Advanced
Wireless Research**

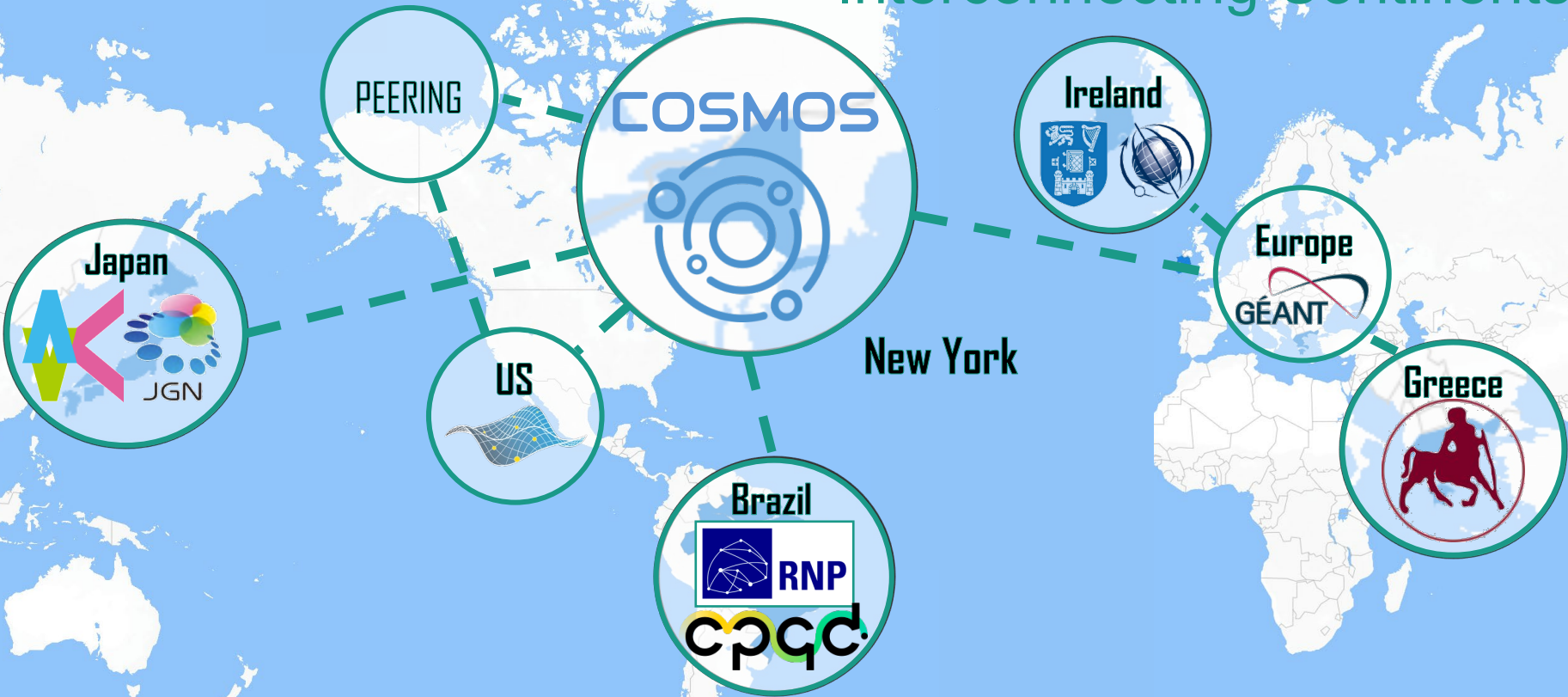


Current Dedicated Resources

- Used for ONAP PoCs since 2018
- Environment
 - Entry point at console located at console.sb10.orbit-lab.org
 - 11 Ubuntu servers, all managed by OpenStack
 - Control Node and Compute Nodes
- Access Methods
 - Organizations can gain access by requesting an account – details at: <https://wiki.onap.org/pages/viewpage.action?pageId=45298557>
 - Tunnels to other labs around the world



COSM-IC: COSMOS Interconnecting Continents



COSMOS (PAWR) Experimental Licenses

FCC Innovation Zone: “The New York City Innovation Zone will encompass area bounded by W 123rd Street on the south, Amsterdam Avenue to the east, W 134th Street to the north and Broadway to the west”

Frequency Band	Type of operation	Allocation	Maximum EIRP (dBm)
2500-2690 MHz	Fixed	Non-federal	20*
3700-4200 MHz	Mobile	Non-federal	20*
5850-5925 MHz	Mobile	Shared	20*
5925-7125 MHz	Fixed & Mobile	Non-federal	20*
27.5-28.35 GHz	Fixed	Non-federal	20*
38.6-40.0 GHz	Fixed	Non-federal	20*

Program Experimental License: at Rutgers, Columbia and CCNY campuses

COSMOS Summary

- Focus on ultra-high bandwidth, ultra-low latency, and edge cloud
- Open platform integrating SDRs, mmWave, and optical x-haul
- 1 sq. mile densely populated area in West Harlem with FCC Innovation Zone designation
- Industry and local community outreach

COSMOS website: <https://cosmos-lab.org>

Tutorials: <https://wiki.cosmos-lab.org/wiki/tutorials>

Twitter: #pawrcosmos

Related links:

- PAWR: <https://advancedwireless.org/>
- ORBIT: <https://www.orbit-lab.org/>