



OFRG: OpenFlow Campus Trials at Rutgers University Spiral 2 Year-end Project Review

Rutgers University

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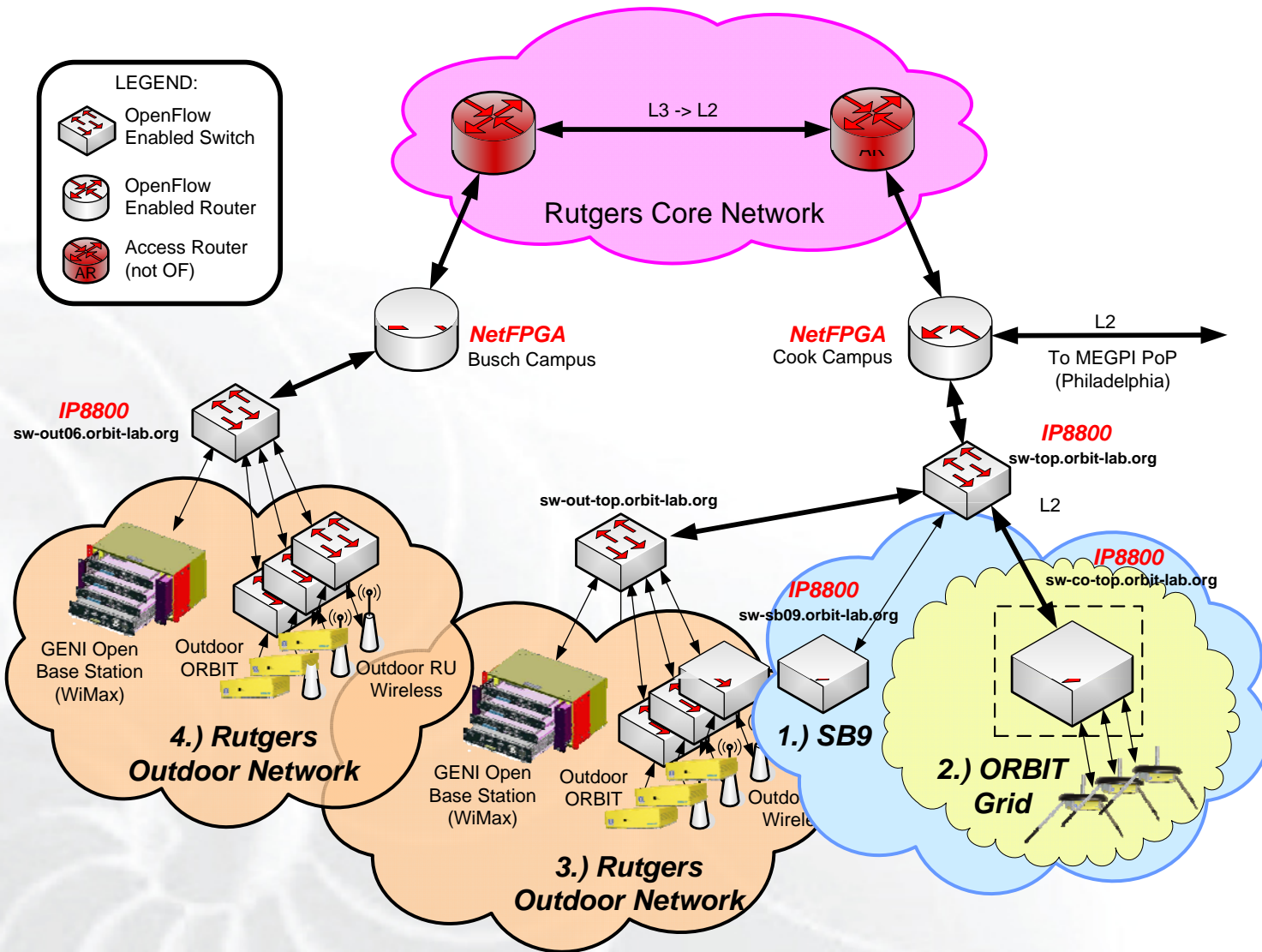
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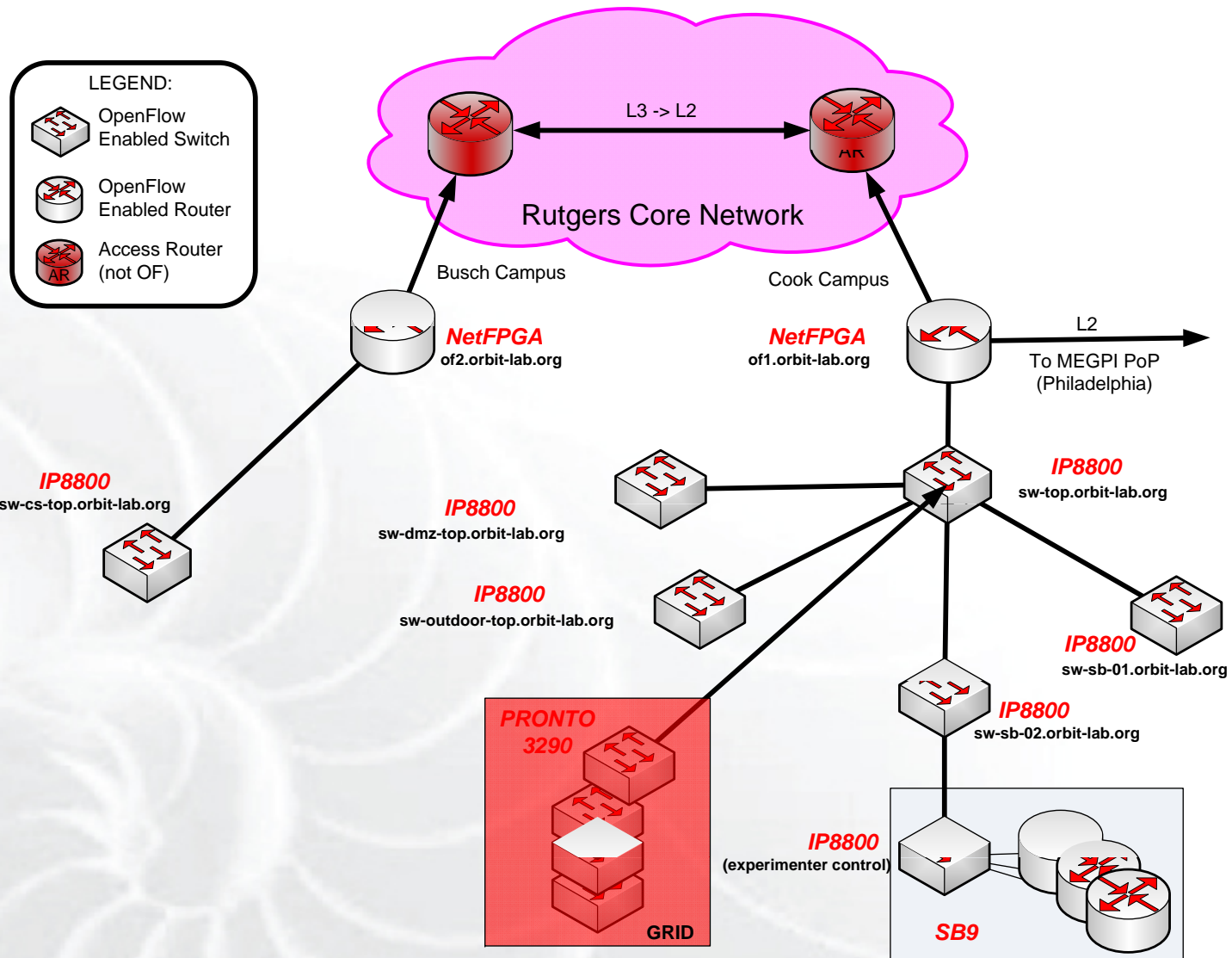
2010-08-25



Rutgers Deployment



Rutgers Deployment (physical)



Milestone & QSR Status

ID	Milestone	Status	On Time?	On Wiki?	GPO signoff?
S2.a1	Select vendors	The set of vendors have been identified and quotes requested	Yes	Yes	Yes
S2.a2	Purchase equipment	Equipment was ordered in April and again in July (change of order due to non-delivery)	Late	Yes	Yes
S2.b	Campus small deployments	Successfully demonstrated at GEC7	Yes	Yes	Yes
S2.c	Install GENI software with AM API implementation	Waiting on GENI software	Late	No	No
S2.d	Begin integration testing with Stanford and BBN	Two site integration demo was shown at GEC8	Yes	No	No
S2.e	Plan and engineer GEC 9 demo	The plan is in place	Yes	No	No
S2.f	Upgrade small deployments to use OF 1.0	The entire implementation is already on 1.0	Yes	No	No

Accomplishments 1: Advancing GENI Spiral 2 Goals

- Except for the vendors failure to deliver, the entire research deployment is already in place and functional
- I2 backbone was tested and functional (before the switchover)
- Tests were performed with both BBN and Stanford
- Production deployment also in place
- SB9 (Experimental playground for OF)

- Issues with NetFPGA tunnel MTU
- Versioning issues (already somewhat addressed)
- Deployment of larger # of virtual switches in IP8800

What are your plans for the remainder of Spiral 2?

- GEC9 demo is the focus
- Testing with large number (>400) of ports
- Multicast support
- WiMAX integration (sw/hw tunneling with OpenFlow?)

The GPO is starting to formulate goals for Spiral 3. What are your thoughts regarding potential Spiral 3 work?

- Unified control framework