

Project Status Report

Period: 7/1/2010-9/30/2010

## **I. Major accomplishments**

The project will study and report on the capabilities recommended for a programmable radio substrate in GENI to best support wireless networking innovations. It is expected that a key capability should be to provide programmability and measurement at all layers. This project will also recommend the capabilities that should be included in the cognitive radio systems that are being developed in the “Cognitive Radios for GENI Spiral II” project.

During this period, key achievements include:

- a) Completed whitepaper and sent for comments by the Cognitive Radio project (Ivan Seskar) and GPO system engineer Harry Mussman.

### ***A. Milestones achieved***

One milestone is due and completed on time in this period:

- a) White paper on recommended capabilities for a programmable radio substrate in GENI, and review of white paper with staff of “Cognitive Radios for GENI Spiral II” project. (Due 9/30/10)

### ***B. Deliverables made***

- a) Completed white paper.

## **II. Description of work performed during last quarter**

### ***A. Activities and findings***

- a) Completed whitepaper and sent for comments by the Cognitive Radio project (Ivan Seskar) and GPO system engineer Harry Mussman.

### ***B. Project participants***

PI Kuang-Ching Wang is the only participant in this project.

### **C. Publications (individual and organizational)**

Not available at this time.

### **D. Outreach activities**

None in this reporting period.

### **E. Collaborations**

This project is performed in collaboration with the “Cognitive Radios for GENI Spiral II” project staff, specifically Ivan Seskar (Rutgers WINLAB).

### **F. Other Contributions**

None in this reporting period.