

# GENI Quarterly Status Report

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## GENI Project 1718

“GENI-IMF: Integrated Measurement Framework and Tools for Cross Layer Experimentation”

a.k.a. “IMF”

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Document Version	Date	By	Notes
1.0	7/30/10	Rudra Dutta	Initial draft

## **I. Major accomplishments ¶**

### **A. Milestones achieved ¶**

- S2.a Initial architecture
- S2.d First component architecture
- S2.e Initial IMF software
- S2.f Integrate the IMF and UMF with BEN

### **B. Deliverables made ¶**

- Initial architecture presentation
- First component architecture document
- Early draft IMF-SILO interface document
- GEC7 demo poster

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

### **A. Activities and findings ¶**

- Created initial architectural view, defined various component subsystems and required interfaces between them.
- Created initial view of integration of UMF and SILO into IMF. Proposed and examined XMPP as interaction between UMF and SILO.
- Developed initial perl script for Measurement Handler.
- Teams from each of the three campuses met at RENCI in January 2010, attained familiarity with Polatis switch and Infinera DTN integrated in BEN. Planned integration of an SOA was postponed pending feedback from Infinera.
- Attended GEC7, demonstrated real-time readouts of optical port power from Polatis switches in BEN by the SILO service running in IMF. Demonstration was made as part of the plenary demonstration of BEN-ORCA stitching demonstration.
- Coordinated with GPO personnel to disseminate through wiki.

### **B. Project participants ¶**

Rudra Dutta, George Rouskas, Anjing Wang, Ahmet Can Babagolu (NCSU), Ilia Baldine (RENCI), Keren Bergman, Michael Wang, Caroline Lai (Columbia).

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

- First component architecture document
- First IMF-SILO document

### **D. Outreach activities ¶**

Within the GENI community, participants of the IMF team attended GECs as well as meetings of the Instrumentation and Measurement Working Group. We also disseminated the results of our project with the use of a dedicated project website in addition to the GENI wiki for our project.

## **E. Collaborations ¶**

Other than the collaboration between the lead and subcontractor teams, we collaborated with Deniz Gurkan and Debjyoti Majumder of the GENI project LEARN in order to reach a compatible view of the Measurement Handler.

## **F. Other Contributions**

None.