The Kentucky INSTOOLS Portal and Archival System

James Griffioen, Zongming Fei, Hussamuddin Nasir, Charles Carpenter, Xiongqi Wu, Jeremy Reed

Laboratory of Advanced Networking, University of Kentucky
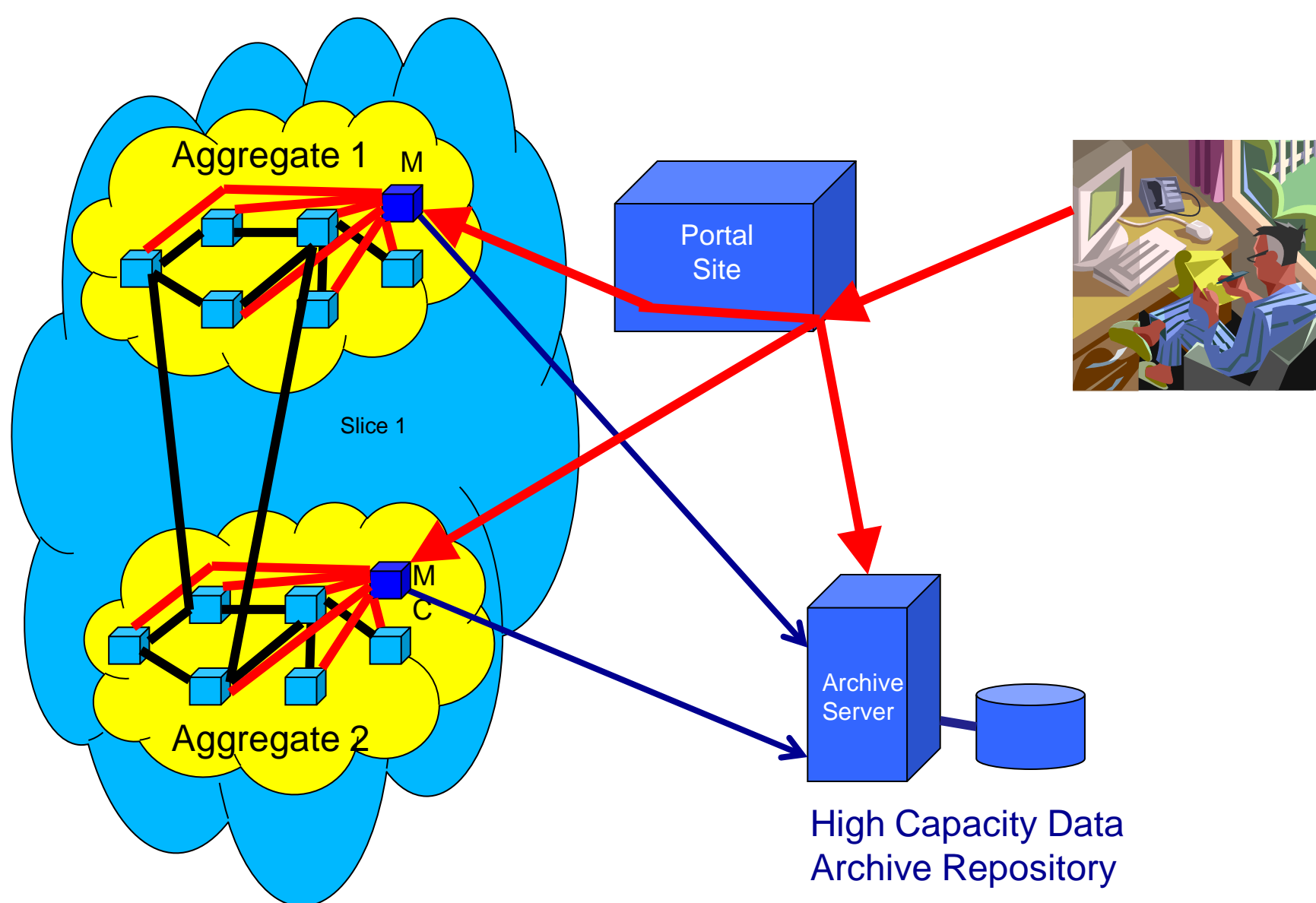
Project Goals

❑ Provide an early operational federated testbed with administrative support and active student use integrated with a GENI control framework, allowing time for studying and improving the testbed.

❑ Provide an implementation of instrumentation capabilities for researcher and student helper tools that give GENI users the ability to better understand the runtime behavior of their experiments.

Demo Overview

The demo shows the function of two key components of the INSTOOLS system.

❑ The portal system provides a single interface to measurement data, potentially located at different components of the ProtoGENI system.

❑ The archival system allows users to store measurement data at any time to an archival server and retrieve/view these data at a later time.
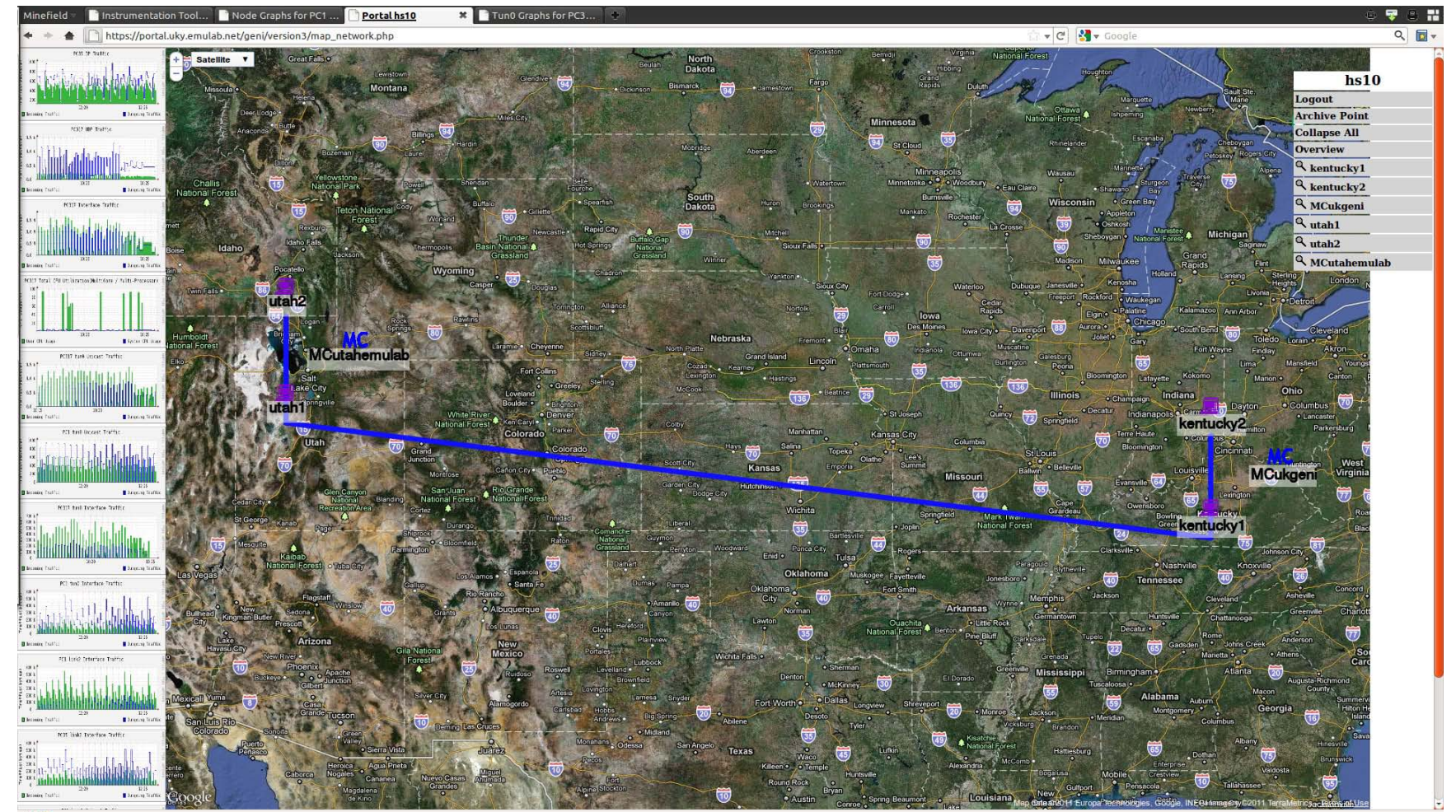

The Portal Site

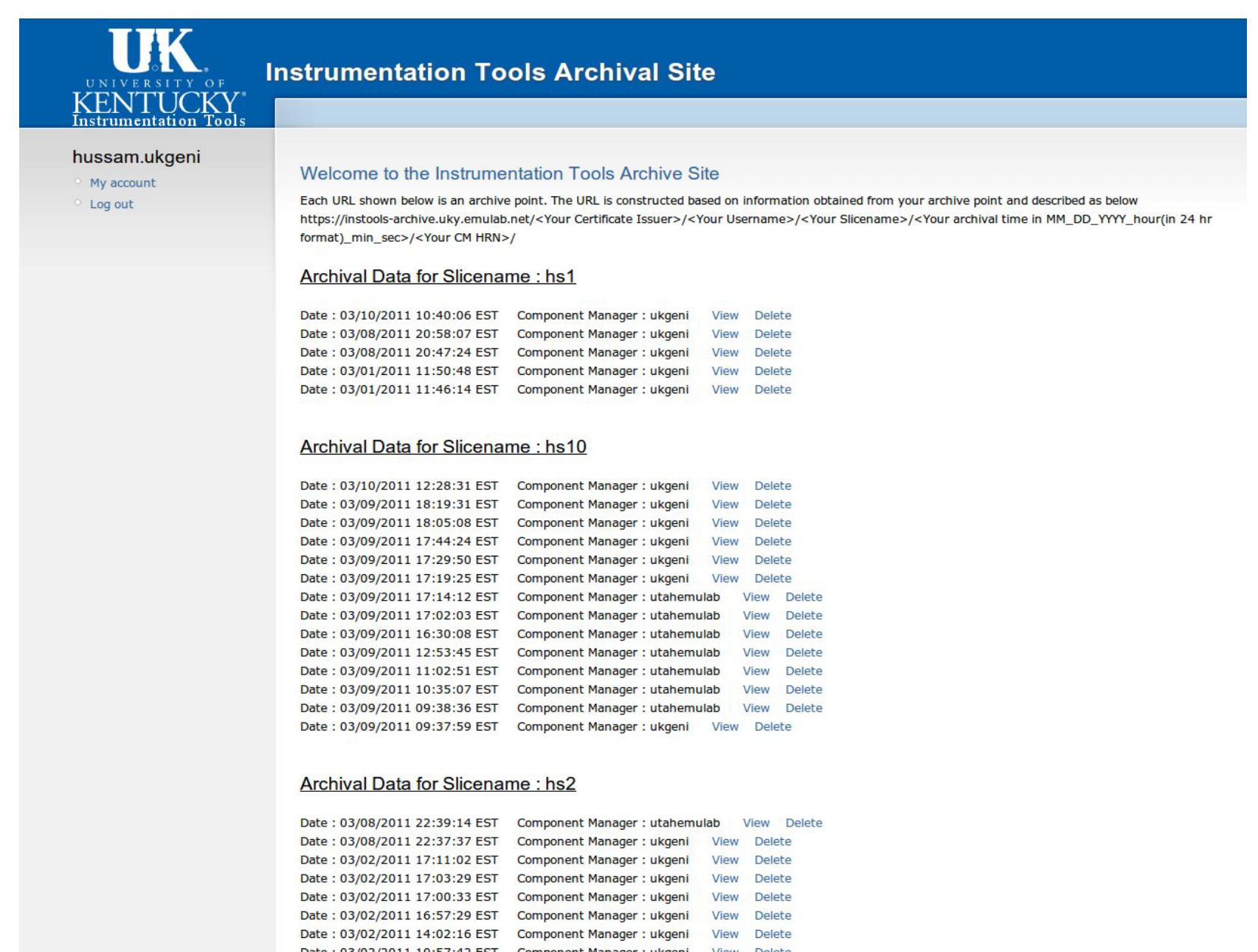The portal site provide one-stop access to all measurement data. The user can

❑ view the overall topology of the experiment.

❑ select a node or link in the experiment to view.

❑ select the type of measurement data to view.

❑ follow a link to the archival system.

The Archival System

❑ Make an archive at any time. All data will be identified uniquely by user name, slice name, component manager and timestamp.

❑ Here is a list of archived data by a user.

❑ The user can view the archived data by selecting from the list.