Scalable Sensing Service

Sonia Fahmy, Ethan Blanton, Sriharsha Gangam (Purdue), Puneet Sharma (HP Labs), Sarbajit Chatterjee, Sumit Kala, Nagarjuna Reddy Chevuru, Deepti Sharma (HP)

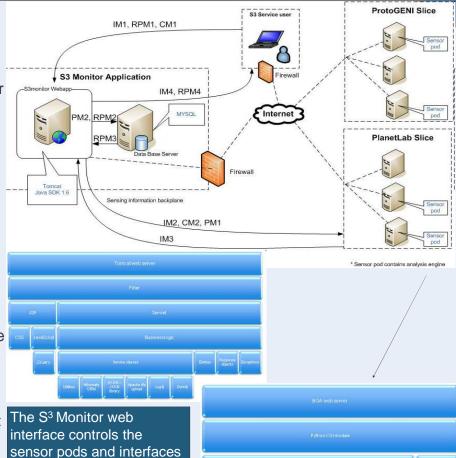
http://groups.geni.net/geni/wiki/ScalableMonitoring

ØThe Scalable Sensing Service (S³ Monitor) provides basic management services for users to take controlled measurements, e.g., available bandwidth, packet loss, between GENI nodes.

ØA web interface is provided to the user for scheduling and initiating measurements, managing ongoing measurements, and retrieving measurement results.

ØThe S³ Monitor service manages the dissemination of schedules to nodes in the GENI slice and retrieval of measurement results on behalf of the user.

ØMeasurement results are stored by the system for later reference until purged by the user.



The sensor pod runs CGI scripts on a BOA HTTP server. New sensors can be plugged into the sensor pod framework.



with the measurement

database.

A GENI experimenter may deploy the S³ Monitor service to a GENI experiment and use its facilities to collect network measurements within the experiment slices.



