

## GEC9 Demo : MAX (Mid-Atlantic Crossroads) GENI

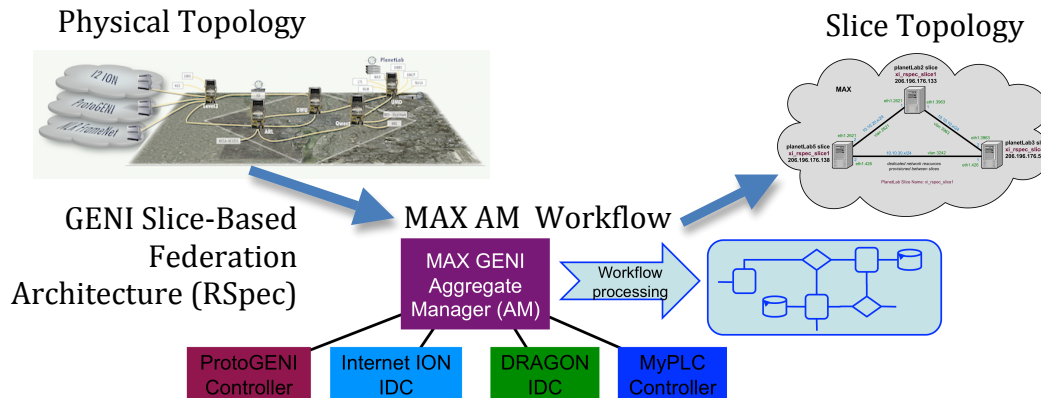
### MAX Regional Network as a GENI Facility

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URL: <http://geni.maxgigapop.net>

#### Abstract

The MAX project is building a GENI facility known as the "Mid-Atlantic Crossroads GENI (MAX GENI) Facility". This includes the development of technology and control systems to enable the MAX Regional Network resources to be made available for GENI experiment slice instantiation. A MAX Aggregate Manager (AM) is now available which integrates the dynamic provision of network and host based resources. The host based resources include PlanetLab nodes and virtual slices. The network based resources include the dynamic provision of high bandwidth dedicated network paths across the MAX research network and beyond via the MAX interconnect to the Dynamic Circuit Network (DCN) infrastructure.



The MAX research network infrastructure has built upon the NSF funded DRAGON network which developed technology in the area of dynamic network provisioning. The MAX GENI project extends this work via the integration of host based resources (PlanetLab) and MAX Aggregate Manager Workflow processing to integrate these diverse resources into a GENI Slice framework.

In this demonstration we show how the SFI/SFA (Slice-Based Federation Architecture) can be used to submit requests to the Mid-Atlantic Crossroads (MAX) GENI Aggregate Manager for the purpose of dynamic instantiation of an experiment topology (GENI Slice). The dynamically instantiated topology will be constructed from a diverse set of resources including PlanetLab slices, dynamically provisioned network paths across the MAX network, and dynamically provisioned network paths across external resources such as Internet2 ION and ProtoGENI.