



Cross-Cutting Issue

GENI Engineering Conference 5 Seattle, WA

**GENI Working Group System Engineers
July 22, 2009
www.geni.net**



End-User Opt-In WG Cross-Cutting Issues

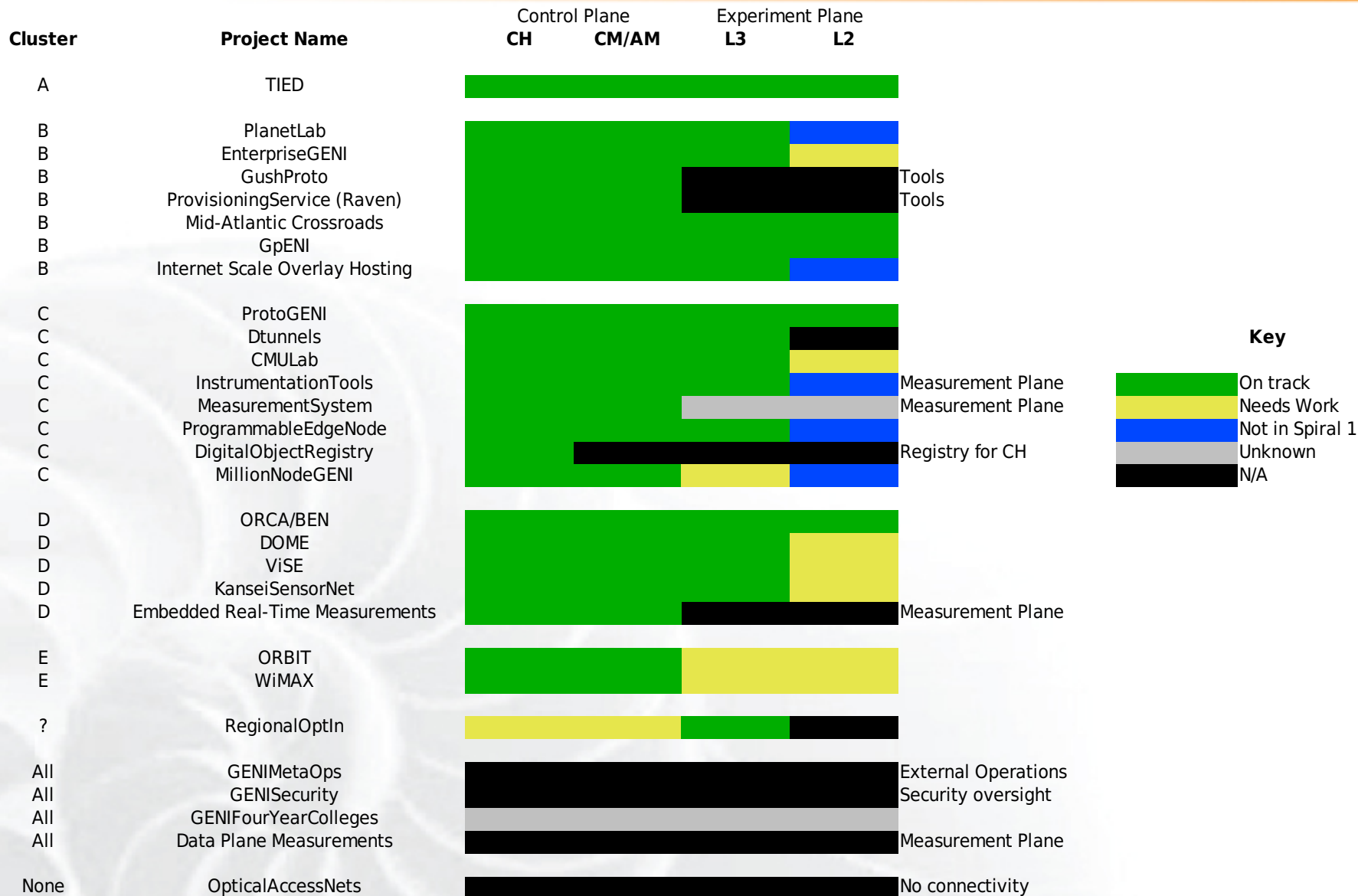
- Baseline view of GENI end-user opt-in now compiled
 - In DRAFT document: “GENI End-User Opt-In Overview”
 - Conclusion: mitigating opt-in risks and solving opt-in issues will drive need for acceptable use and best practices agreements between key GENI actors
 - But, have not had a clear view of GENI entities, actors and agreements
- Need a clear view of GENI structure, including entities, actors and agreements
 - Although can start with a reference structure (like PlanetLab), a wide range of structures are possible (multiple suites, many federations), and will include all types of agreements
 - Put a proposed view in DRAFT document: “GENI Structure Overview”
 - Expected range of GENI structures must be supported by GENI architecture, particularly control framework
 - Would like to begin discussion soon on substance and terminology

Cross-Cutting Issues Identified by the Services WG

- RSpecs
 - Experimenter tools use RSpecs to specify resources needed for experiments
 - CF WG needs to agree on RSpecs
- Identity management
 - Tools need to provide experimenter identity to control framework entities
- Instrumentation and Measurement
 - Experimenters need to know measurement policies for different aggregates, users, etc.
 - Related to opt-in agreements

- OMIS has overlap with all projects and all WGs!
- 3 presentations on current integration status
 - Network Integration
 - Operations data
 - Security

Slides follow, see full presentations linked from OMIS
Agenda on the wiki
- Some discussion on shutdown
- The Quilt talked on helping get connectivity
- Miscellaneous digressions



Status of our gathering

Cluster	Project Name	Specialized Data			
		Operational Status	Utilization Measures	Condition Measures	Topology
A	TIED				
B	PlanetLab				
B	EnterpriseGENI				
B	GushProto				
B	ProvisioningService (Raven)				
B	Mid-Atlantic Crossroads				
B	GpENI				
B	Internet Scale Overlay Hosting				
C	ProtoGENI				
C	Dtunnels				
C	CMULab				
C	InstrumentationTools				
C	MeasurementSystem				
C	ProgrammableEdgeNode				
C	DigitalObjectRegistry				
C	MillionNodeGENI				
D	ORCA/BEN				
D	DOME				
D	ViSE				
D	KanseiSensorNet				
D	Embedded Real-Time Measurements				
E	ORBIT				
E	WiMAX				
?	RegionalOptIn				
All	GENIMetaOps				
All	GENISecurity				
All	GENIFourYearColleges				
All	Data Plane Measurements				
None	OpticalAccessNets				

Key	
	Actively Collected
	Partially Collected
	Never to be collected
	Planned for future
	Unknown
	N/A

Cluster	Project Name	Control Plane					
		CH	CM/AM	Spiral 2			
A	TIED	[Green]			Federation using ABAC		
B	PlanetLab	[Green]			SFA-based GENI wrappers		
B	EnterpriseGENI	[Green]			Uses PL CH as a trusted authority		
B	GushProto	[Green]			Tools		
B	ProvisioningService (Raven)	[Green]			Tools		
B	Mid-Atlantic Crossroads	[Green]					
B	GpENI	[Green]					
B	Internet Scale Overlay Hosting	[Green]					
C	ProtoGENI	[Green]			CH and AMs using UUID/HRN		
C	Dtunnels	[Green]					Key
C	CMULab	[Green]					
C	InstrumentationTools	[Green]			Measurement Plane	[Green]	On track
C	MeasurementSystem	[Green]			Measurement Plane	[Yellow]	Needs Work
C	ProgrammableEdgeNode	[Green]				[Blue]	Not in Spiral 1
C	DigitalObjectRegistry	[Green]			Registry for CH	[Grey]	Unknown
C	MillionNodeGENI	[Blue]	[Green]	[Grey]	Language-based	[Black]	N/A
D	ORCA/BEN	[Green]			Shirako (ticket) based		
D	DOME	[Green]					
D	ViSE	[Green]					
D	KanseiSensorNet	[Green]					
D	Embedded Real-Time Measurements	[Green]			Measurement Plane		
E	ORBIT	[Blue]	[Green]	[Green]			
E	WiMAX	[Blue]	[Grey]	[Green]			
?	RegionalOpt'n	[Grey]	[Grey]	[Grey]			
All	GENIMetaOps	[Blue]	[Black]	[Green]	External Operations		
All	GENISecurity	[Black]	[Black]	[Black]	Security Architecture		
All	GENIFourYearColleges	[Grey]	[Grey]	[Grey]			
All	Data Plane Measurements	[Blue]	[Black]	[Grey]	Measurement Plane		
None	OpticalAccessNets	[Black]	[Black]	[Black]	No connectivity		