

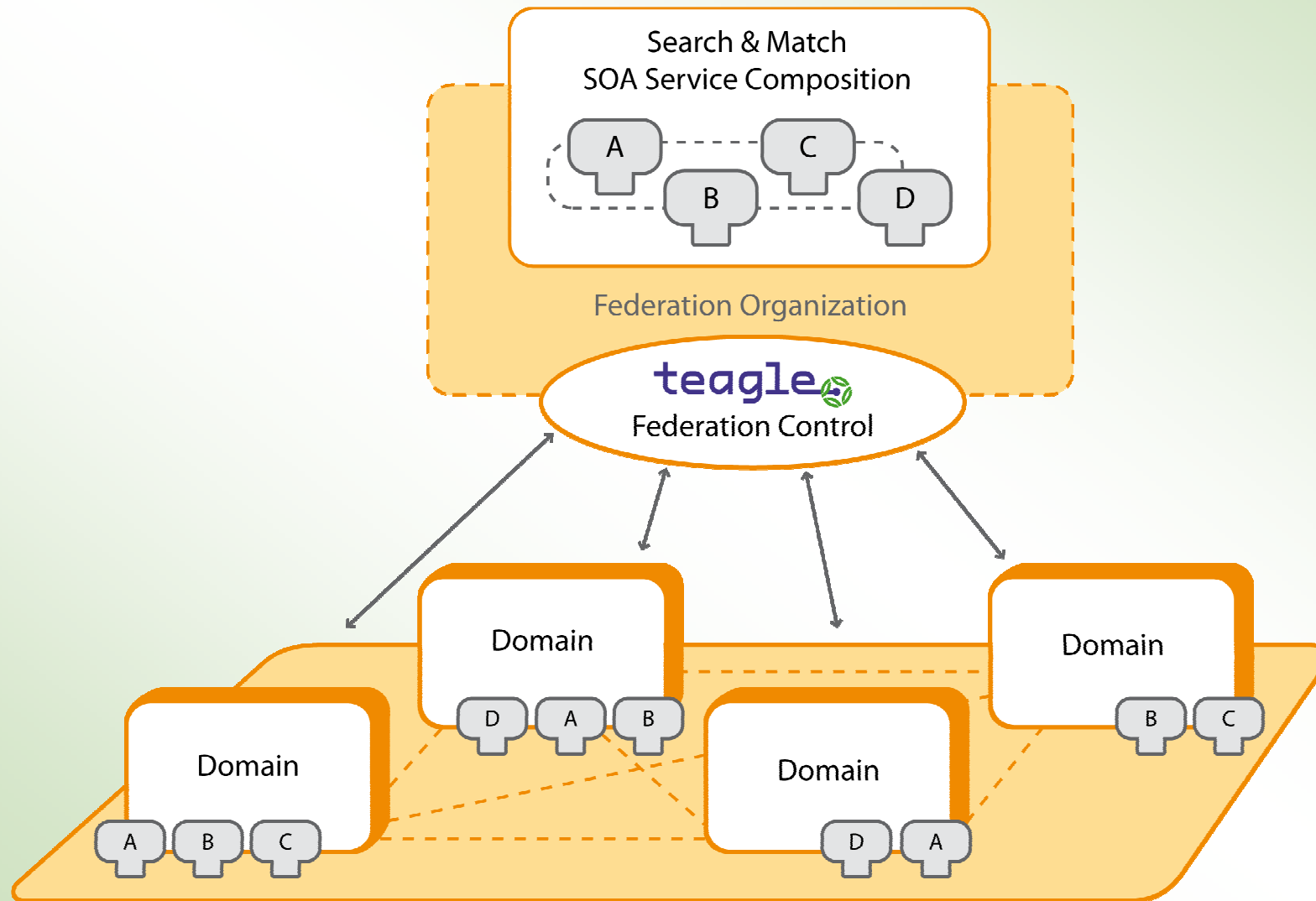
Pan-European Laboratory Infrastructure Implementation

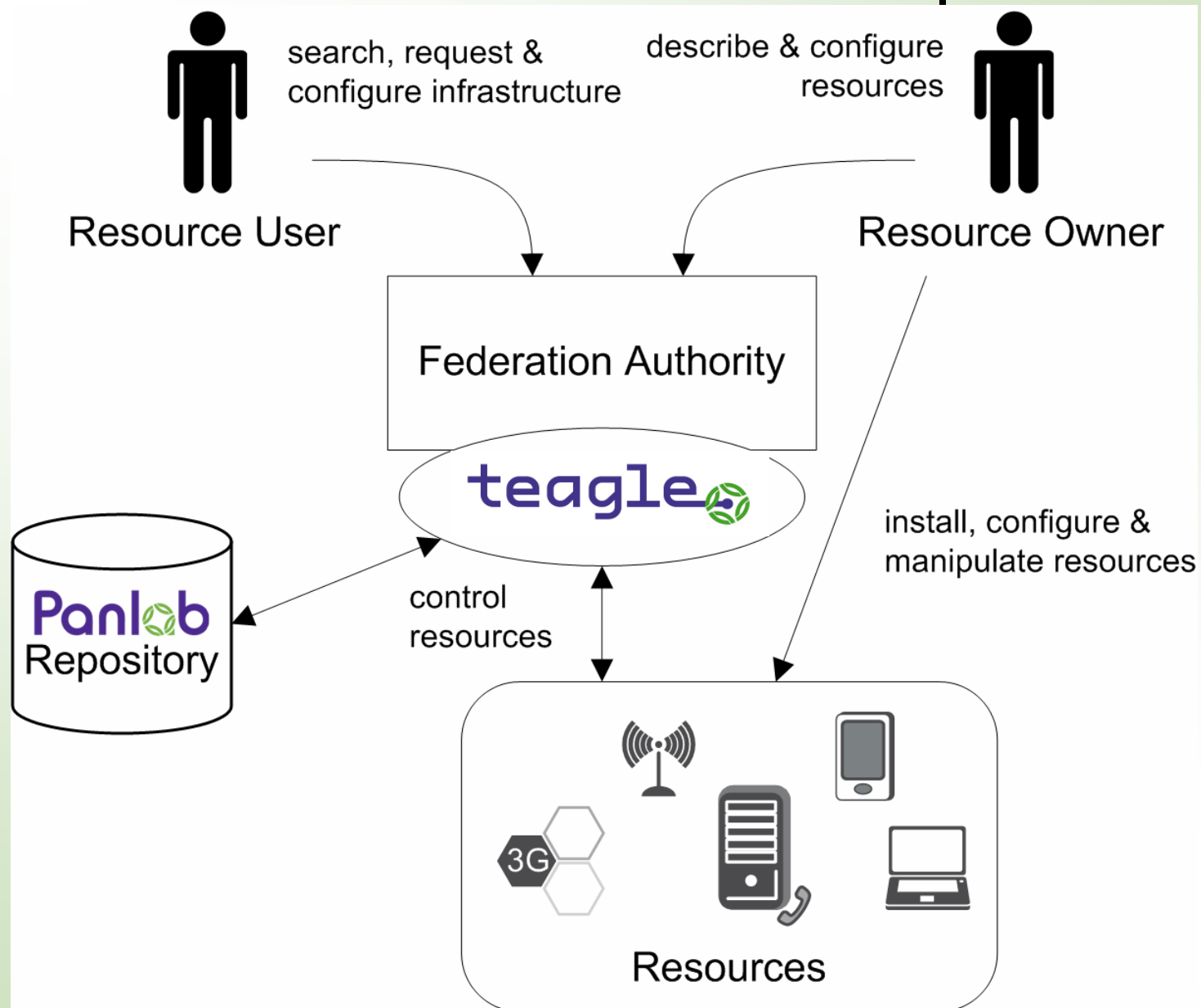
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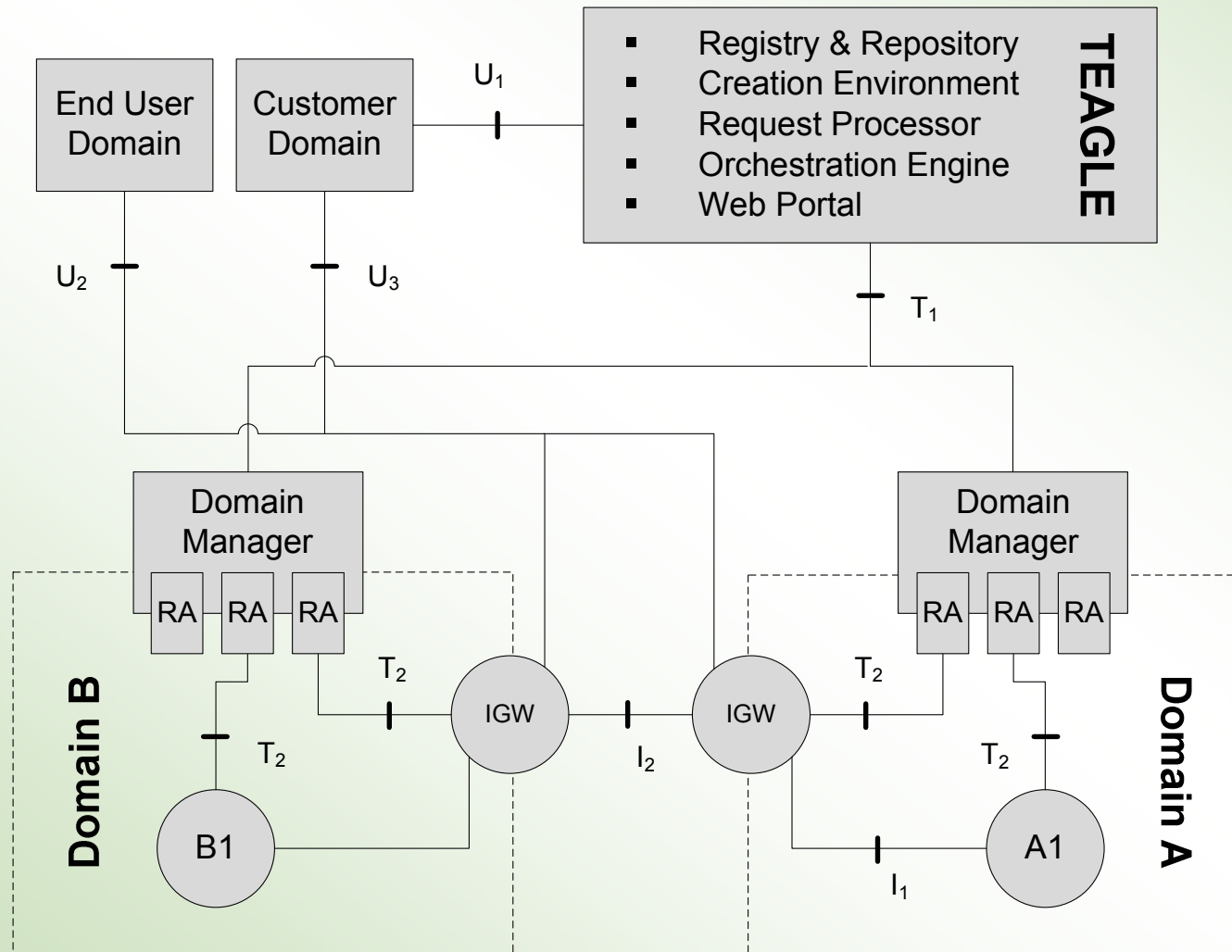
- Primary objective
 - Create a large scale testing and experimentation facility by integrating existing and emerging testbeds
 - Achieve scale and maintain independence through domain federation
 - Enable end-to-end interoperability of platforms, networks and services
- General purpose outcome
 - Generic resource integration framework
 - Agnostic to any particular technology

- Heterogeneous resources are owned and operated by different domains
- Domains engage in federation and share resources
- The federation control tool called Teagle executes management operations via a control framework
- Supports broad Future Internet research
 - Re-use resources across the boundaries of domains and communities instead of re-building infrastructure
 - Infrastructure as a Service (IaaS)
 - Platform as a Service (PaaS)

Resource Integration Framework

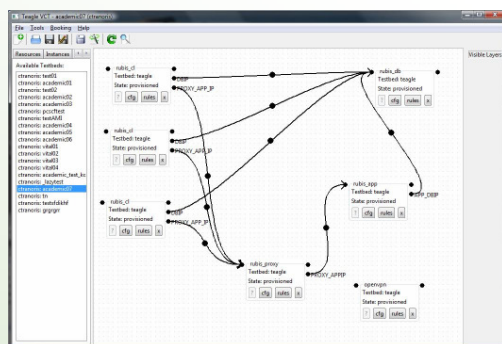






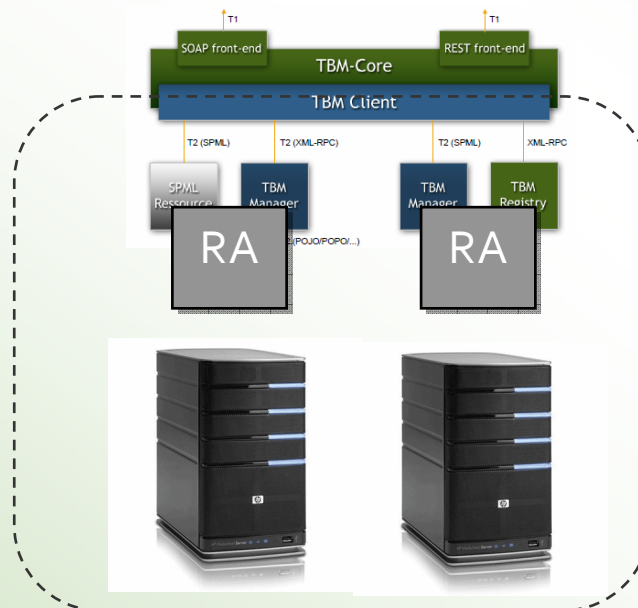
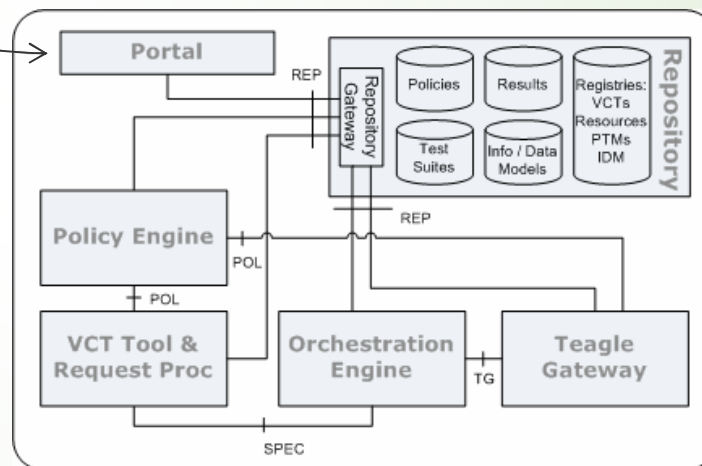


Experimenter



Partner Domain
(e.g. FIRE testbeds,
industrial and
academic testbeds)

Federation Framework



teagle
A Pan-European Laboratory Project

interface

Panlab Testbed Manager

interface

Resource Adaptor

interface

Resource

- Federation Portal and Design Environment (currently access to selected users only)
<http://www.fire-teagle.org/>
- Detailed Technical Information in Trac/wiki
<http://trac.panlab.net/trac/wiki>
- Software components available
<http://svn.panlab.net/PII/repos/Software/>
- Domain Manager to federate resources from an administrative domain
<http://trac.panlab.net/trac/wiki/CorePTM>
- Resource Adaptors (RA) to allow remote configuration. For specialized resources, RAs need to be developed
<http://trac.panlab.net/trac/wiki/RADL>
- Federation Computing Interface
<http://trac.panlab.net/trac/wiki/FCI>



Thank you for your attention

<http://www.panlab.net>