



Enabling Grids for
E-science in Europe

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Bootstrapping

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Problem

- How does the *Information System* start itself up?
- R-GMA...
 - Clients need to locate appropriate Producer/Consumer service
 - Different (local) service for each site
 - Configured by sys. admin. on installation
 - Producer/Consumer services need to locate Registry and Schema services
 - One set of Registry & Schema services for multiple sites (in one VO)

Possible solutions

- Central server
 - Server **pushes** the schema/registry list to each node
 - Server needs list of nodes
 - Each node **pulls** the schema/registry list from the server
 - Nodes need to know server address
 - Advantages
 - Easy modification of available schemas/registries
 - Disadvantages
 - Single point of failure
 - Hard-coded configuration still required
- Configuration files
 - Statically defined set of registries & schemas
 - Set by sys. admin. at each site

Questions / discussion

- Are configuration files sufficient?
 - List of registries/schema will be fairly static
- Is there a need for more dynamic configuration?
- If so, is there a suitable solution that...
 - ...doesn't require much manual configuration?
 - ...isn't a SPOF?