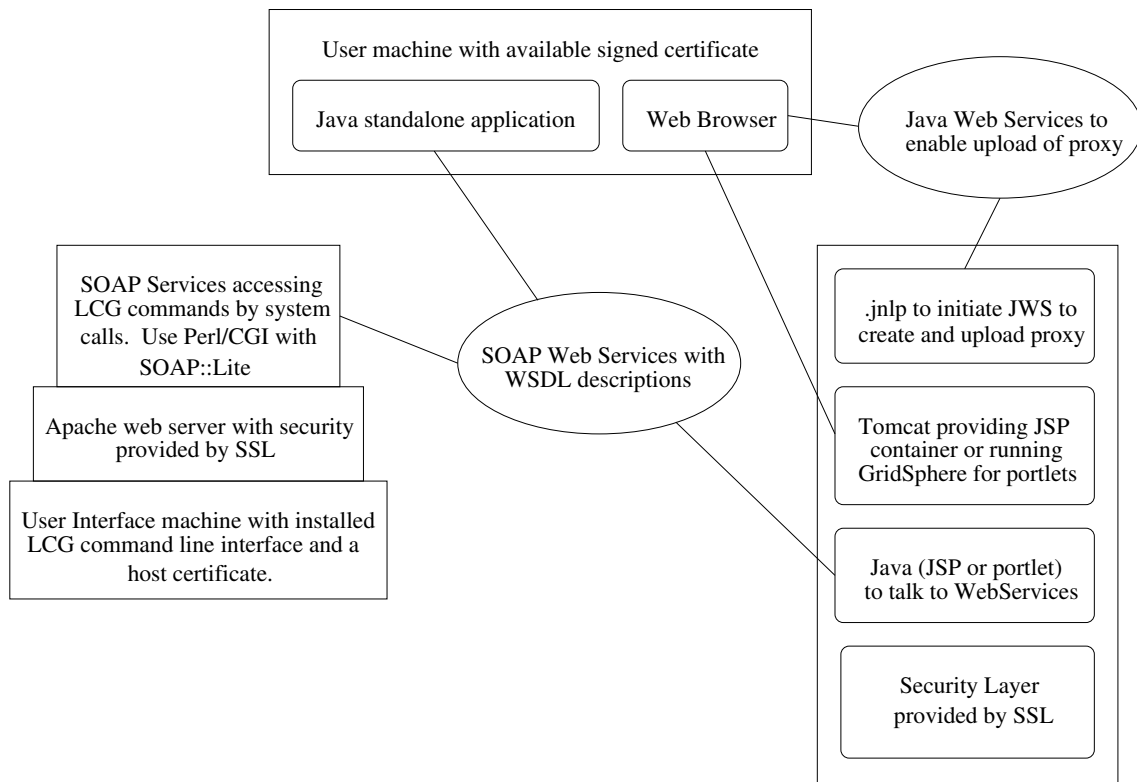


GridPP Portal : Brief Specification

GIDON MOONT

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Requirements

The section at the top represents a user on their computer. This machine must have

- access to a X.509 certificate signed by one of the Certificate Authorities recognised by the LCG
- a web browser
- Java 1.4.2+ installed

In addition, the user will also have to be a member of a Virtual Organisation in order to be able to use the LCG.

The section on the right represents a webserver portal. This machine must have

- Tomcat
- GridSphere; a portlet container that can run in Tomcat, and has advantages for future integration with more general non-Grid portals such as CHEF/SAKAI.
- a level of "social engineered security" *i.e.* limited user access

The section on the left represents the Grid facing part of the portal. This machine must have

- Apache
- SOAP::Lite - a PERL implementation of SOAP
- a security layer provided by SSL (mod_gridsite has additional advantages that may allow GSI connections to the SOAP services)

Design

The main feature of this design is the separation of the user facing portal from the Grid facing functionality. This protects the user facing portal design from changes in the LCG, provided that the Grid facing part maintains the same WSDL interface.

The first version of the portal will be through a web browser. Standalone Java applications acting as a portal can come later.

Prototype

The prototype will demonstrate the following functionalities

- SOAP interfaces between the user facing portal and the LCG commands
- How a user can place a proxy on the portal using a Java Web Start tool
- The ability of a user to upload and retrieve files from the portal
- The ability to run a basic job on the LCG, monitor its progress, and access the outputs

**High Energy Physics Group, The Blackett Laboratory, Imperial College London,
South Kensington Campus, Prince Consort Road, LONDON SW7 2BW Tel: +44
(0)207 594 7810 FAX: +44 (0)207 823 8830**