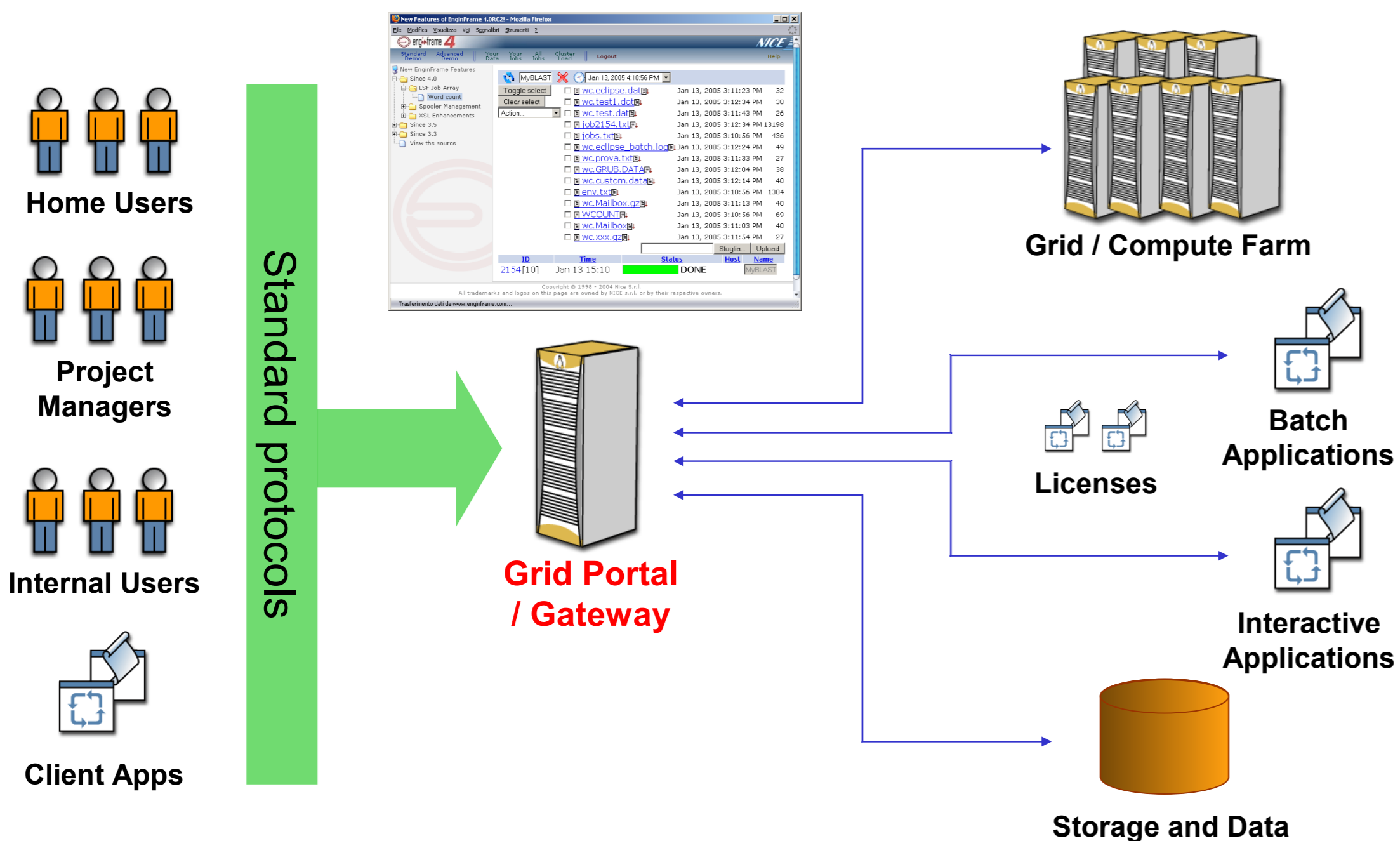
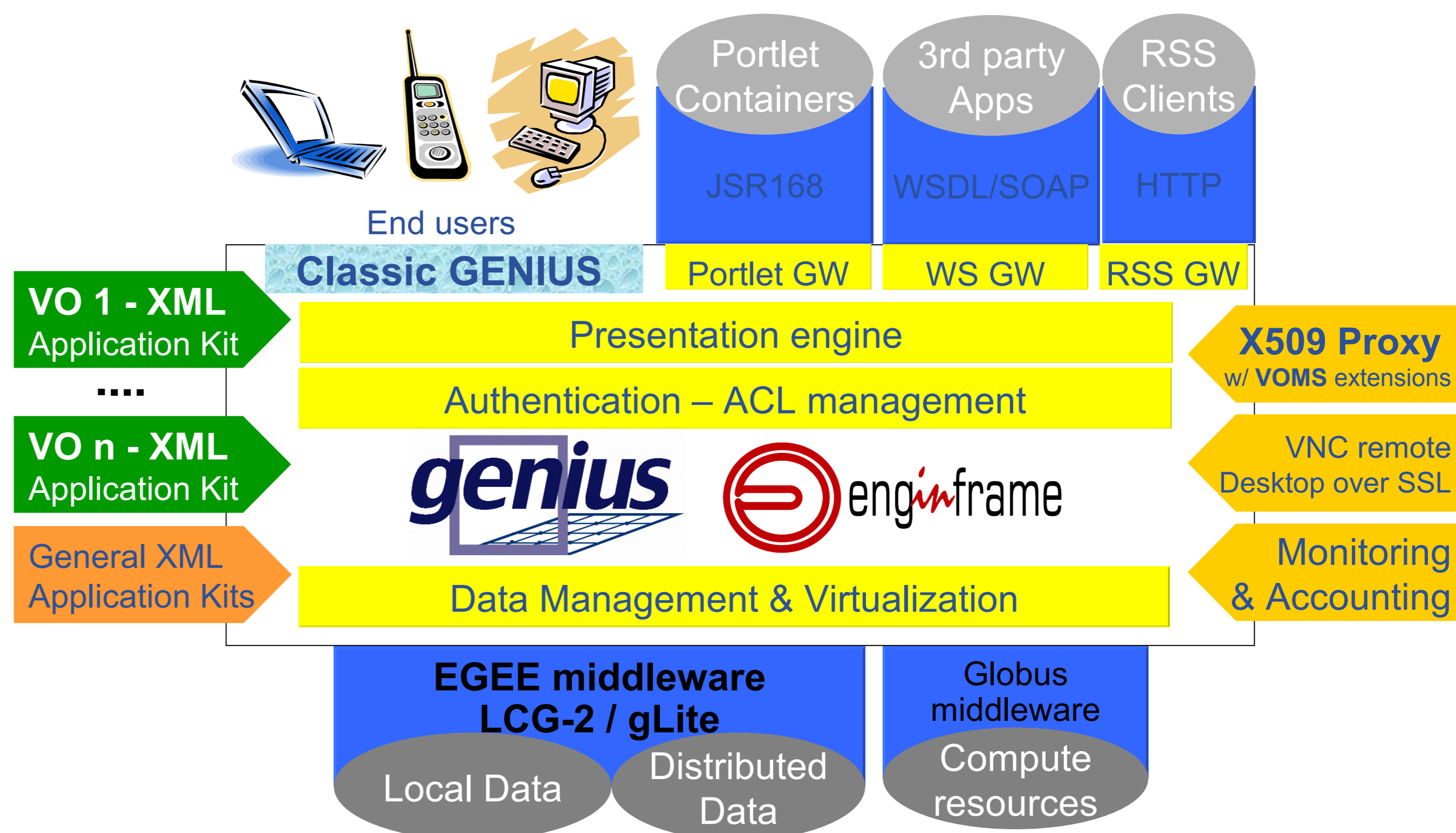


The Grid Portal Gateway



The Architecture



The VOMS Proxy Init Service

The Robot Certificates

Since February 2008 also the Italian INFN Certification Authority started to issue Robot Certificates.

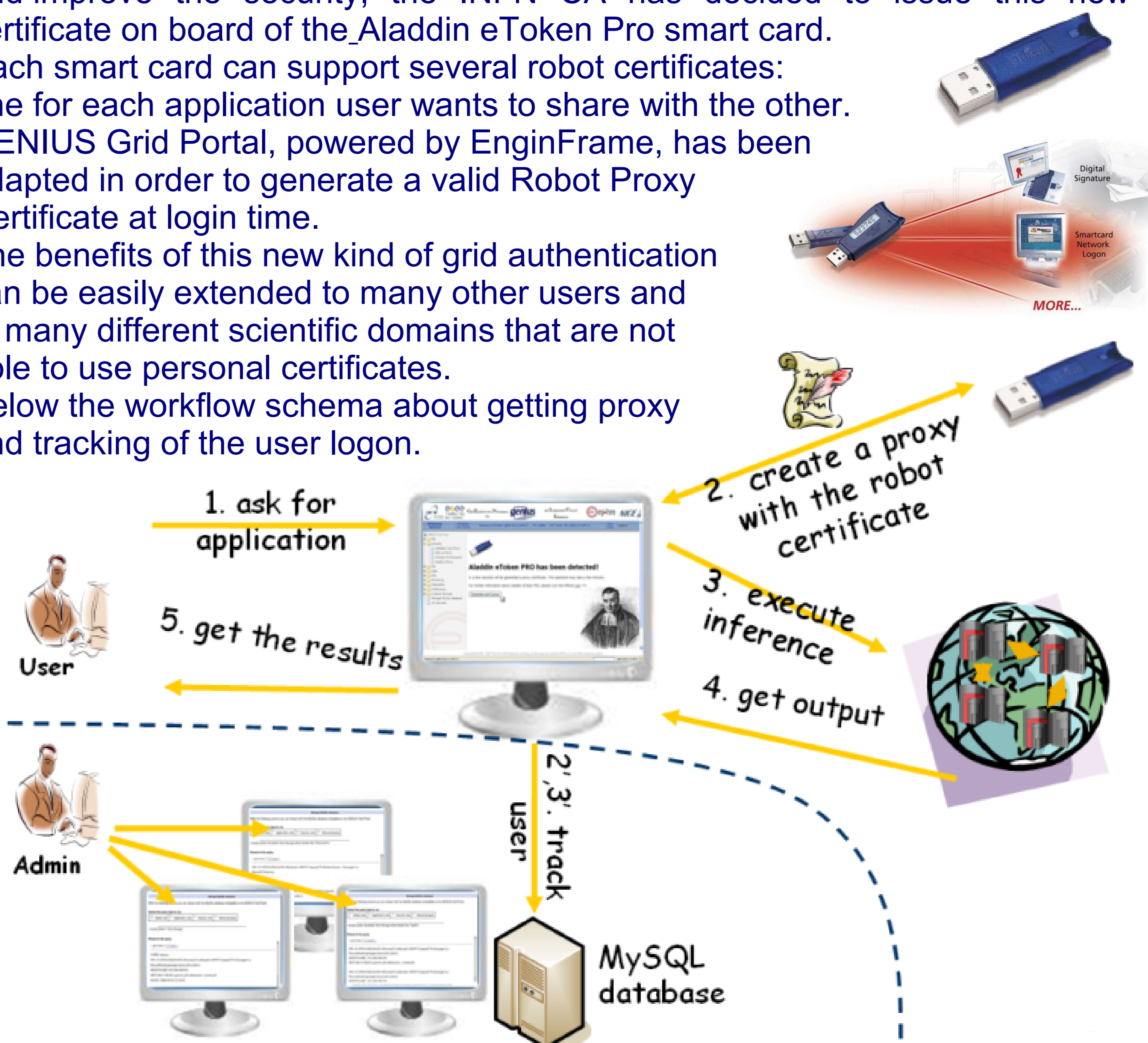
Thanks to these new kind of certificates, biologists and other communities will be able to access to the grid storage and computational resources through the sharing of the certificate plugged into the host where the Grid Portal is installed.

In order to strong reduce the risks to have the portal certificate compromised and improve the security, the INFN CA has decided to issue this new certificate on board of the Aladdin eToken Pro smart card.

Each smart card can support several robot certificates: one for each application user wants to share with the other. GENIUS Grid Portal, powered by EnginFrame, has been adapted in order to generate a valid Robot Proxy Certificate at login time.

The benefits of this new kind of grid authentication can be easily extended to many other users and to many different scientific domains that are not able to use personal certificates.

Below the workflow schema about getting proxy and tracking of the user logon.



Thanks to the VOMS Proxy Init Service the users are able to authenticate themselves to the grid middleware without moving their own personal certificate, using a standard browser Java compliant.

Core Values in New Features coming in next version of EnginFrame

- Collaboration (Security, Authorization, Standard Protocols, Team Management, User Tracking);
- Integration (SOA/WebServices, Authentication/SSO, Multi-Scheduler, Multi-Language, Remote GUI Solution i.e. IBM DCV);
- Productivity (Web 2.0, User friendliness, Application centric, Job Data integration, Data Life Cycle).