



EGEE/NAREGI Interoperability Meeting

Security, Authentication, Authorization



NAREGI-CA

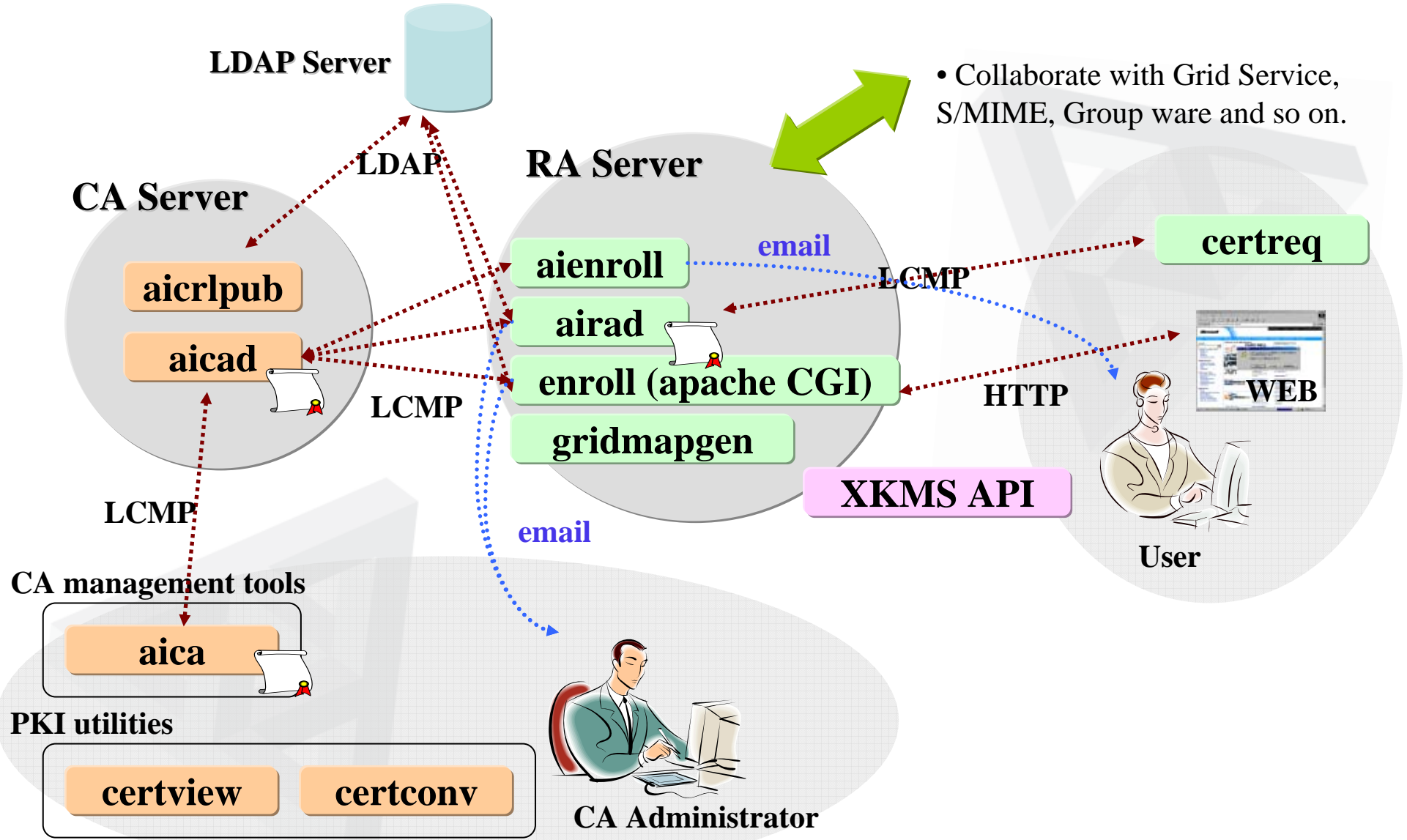
- Development of NAREGI-CA
 - NAREGI-CA Software
 - To experiment the operation of PKI authentication service (CA server software and CP/CPS) for grid environment freely, we developed our own CA software.
 - Software is available for anyone.
<http://www.naregi.org/download/index.html>
 - CP/CPS
 - CA/RA policy and authentication service policy is developed to be satisfied with basic assurance level by GGF.
<https://www.naregi.org/ca/index.html>
 - Audit
 - Auditing of Grid CAs is proposed at GGF13.



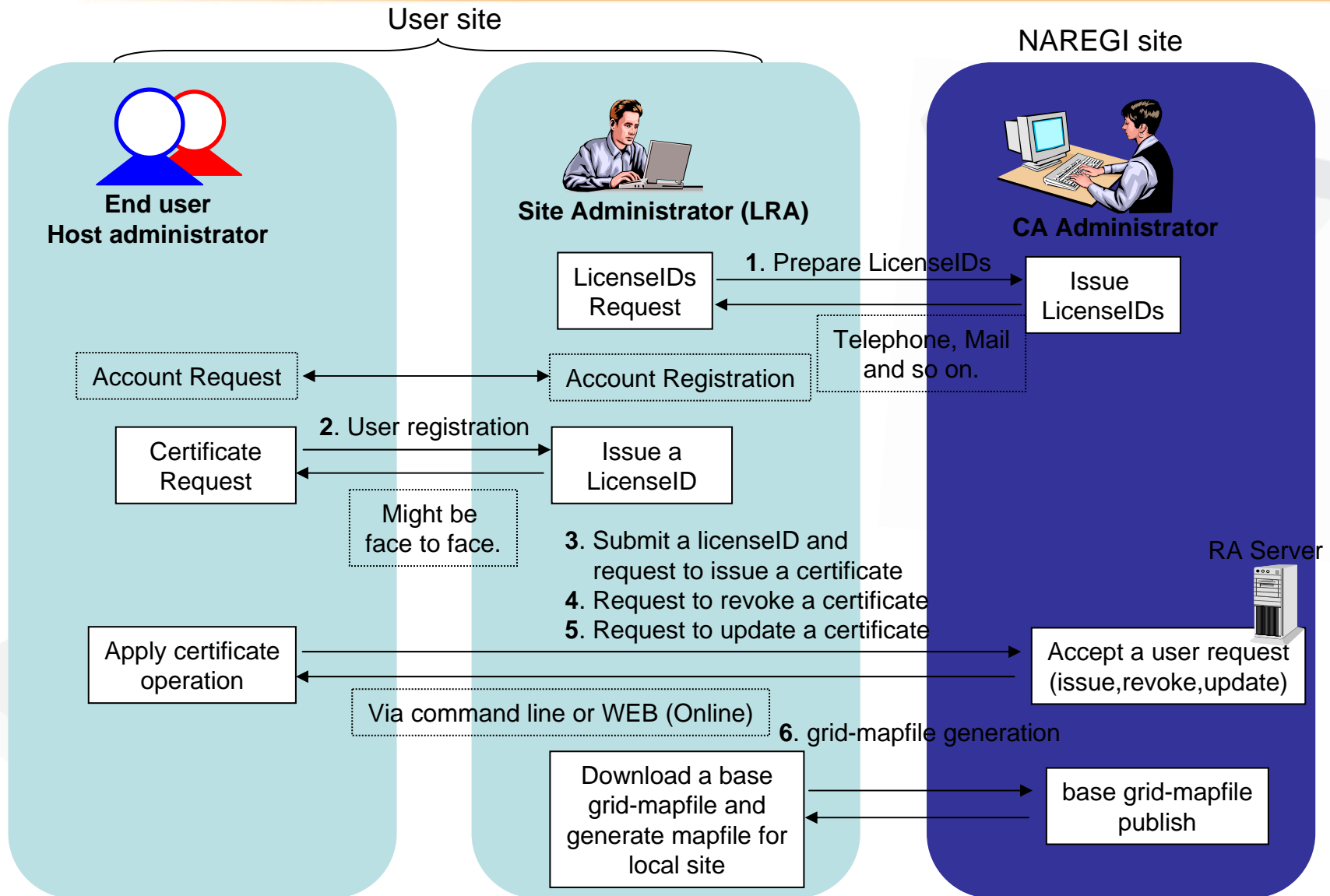
NAREGI-CA

- NAREGI PMA is established and CA Operation started.
 - NAREGI PMA is Established. (June 17,2005)
 - NAREGI CA joined the APGrid PMA. (July 26, 2005)
 - NAREGI-CA Operation started. (Sep 1,2005)
 - NAREGI CA has been approved as a production-level CA. (Nov. 7, 2005)

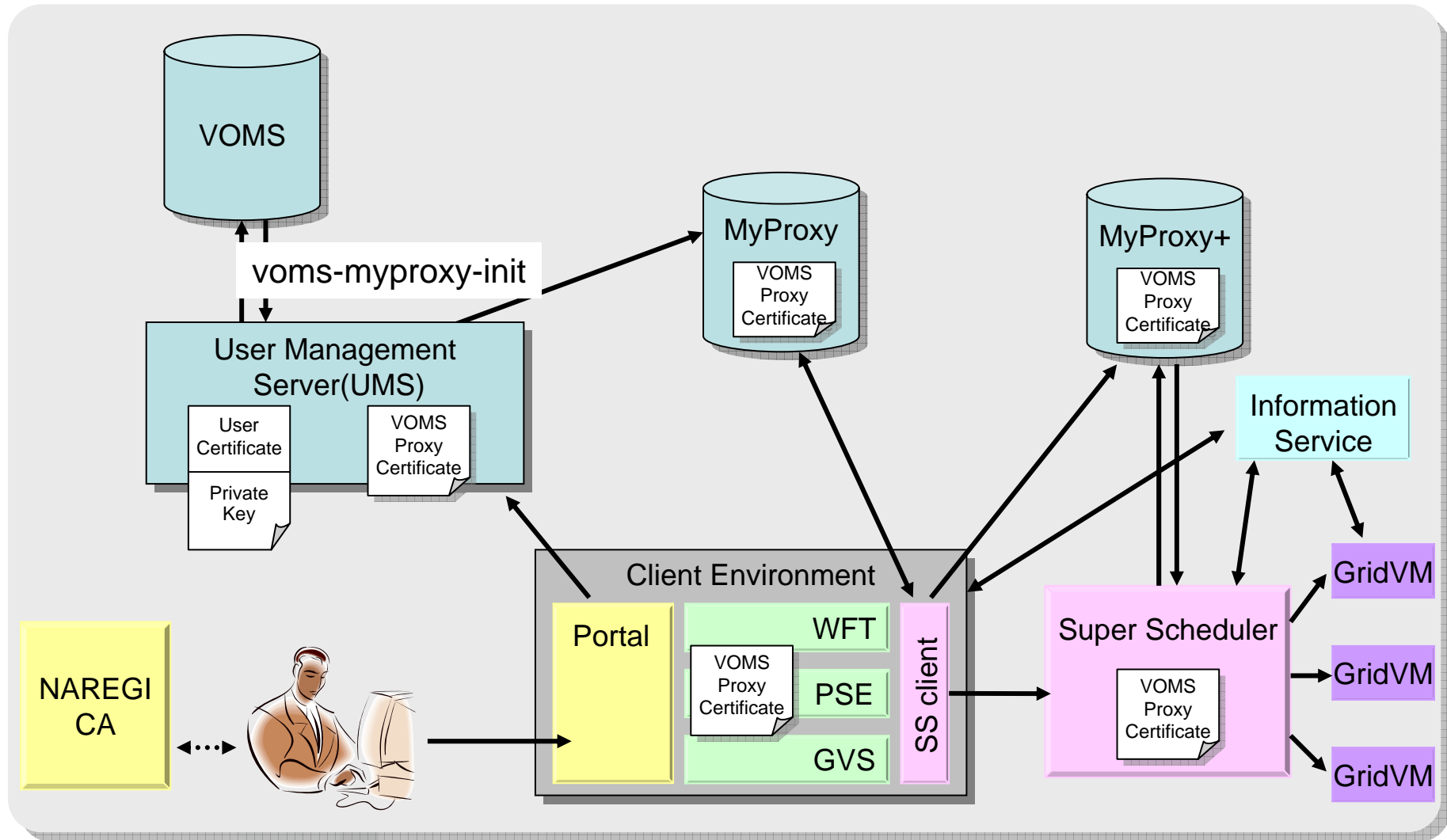
NAREGI-CA server components



NAREGI Registration Sequence



NAREGI Middleware β components





VO and User Certificate Treatment

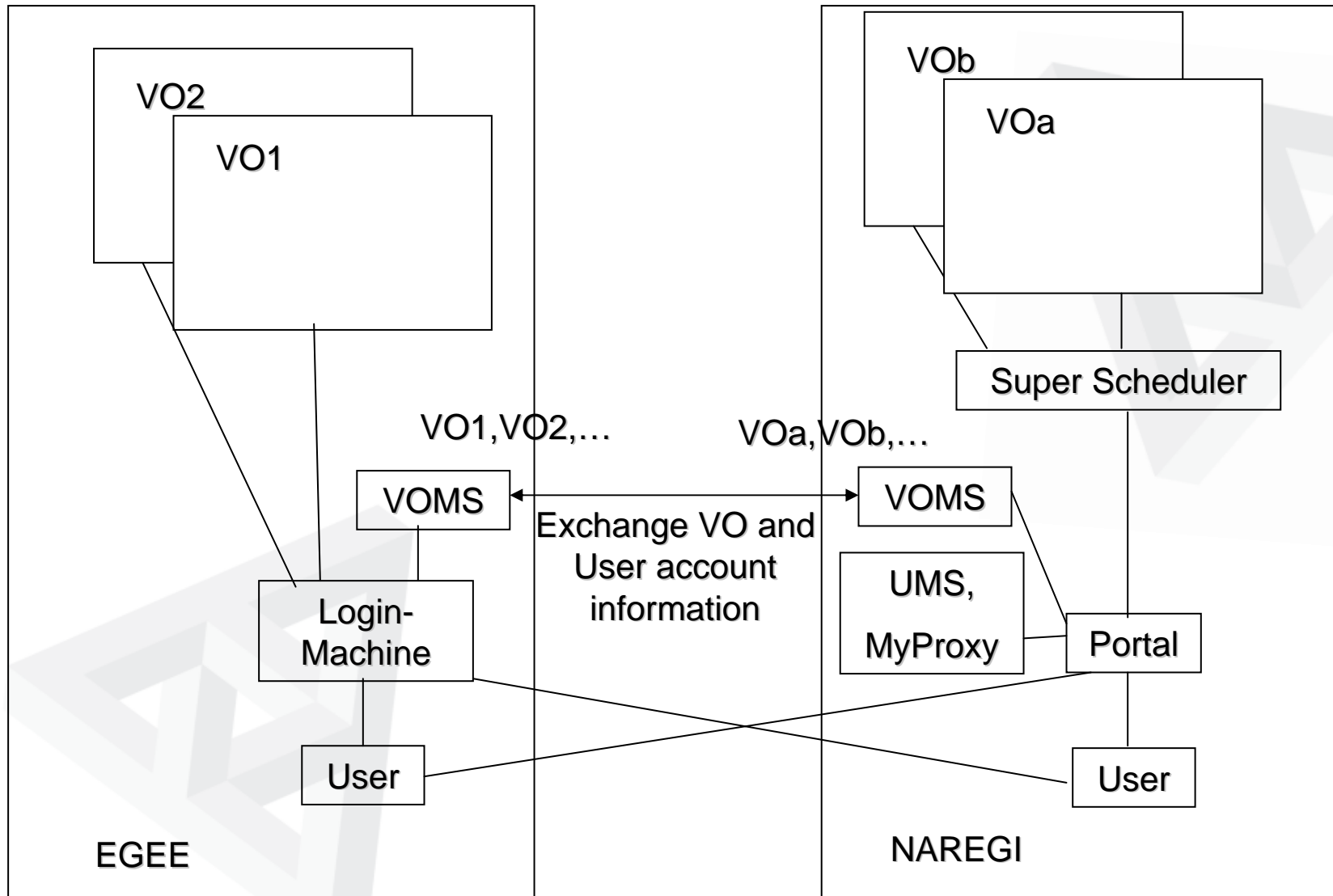
- gLite VOMS Server(Ver.1.3) is adopted for VO Management. (Is the upgrade needed to the latest version for the interoperation?)
- Some components call gLite Java API to obtain VO attribute from the certificate.
 - “org.glite.security.utils” and “org.glite.security.voms” packages are used.
- User management server is used for the repository of the user certificates. Proxy certificates with VO attribute are issued through the NAREGI portal operations.
 - This is experimental and very simple implementation. It may be replaced to another implementation (e.g. PURSe)



VO and User Certificate Treatment

- NAREGI Middleware β has some restrictions for VO and proxy certificate treatment.
 - Only VO name is used for the authentication(group,role and capability are not referred as authentication attribute)
 - A user can belong to more than one VO, but a job can use one VO at the same time.
 - Credential renewal for the long running jobs is not supported.
- NAREGI Middleware β has been still testing. It will be released at next GGF.

Interoperation Scenario 1





Interoperaton Scenario 1

- Only the first step of interoperation
- Interoperation between different middlewares based on the same authentication information, which is the first fruit
- Discussion
 - Common VO namespace
 - Management and exchange of Information (VO, user account,...etc)
 - How to generate and distribute grid-mapfile
- Beyond the Scenario1
 - Making a next model and scenario after realizing interoperations of Job Submission and Information Service