



Enabling Grids for E-science

New Authorization Service

Christoph Witzig, SWITCH
(christoph.witzig@switch.ch)

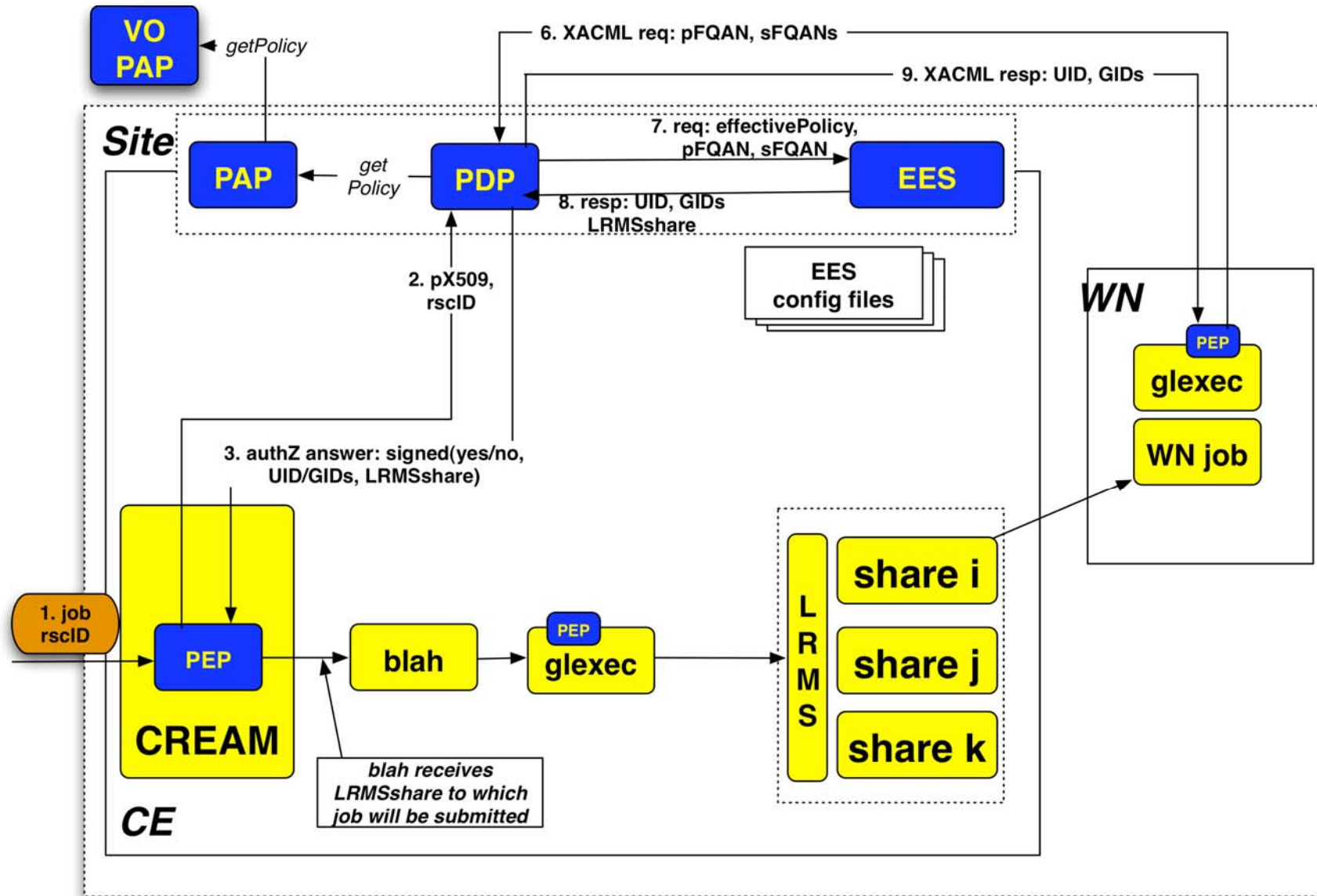
MWSG March 27, 2008

www.eu-egee.org



- **Work item in EGEE-III for CNAF, HIP, NIKHEF and SWITCH**
 - CNAF: 6PM, HIP: 6PM, NIKHEF: 18PM, SWITCH: 12PM
- **Requirements:**
 - Uniform authorization and policy management in gLite
 - Compatible with SAML and XACML standards
 - Built on the experience of previous systems
 - LCAS/LCMAPS, SCAS, G-PBox, gJAF
 - Not constrained to the use of any existing implementation
 - though recommended for the sake of economy
 - Development and deployment within EGEE-III
- **Relation to SCAS**
 - addresses the problem of gLexec on the WN on a short time scale
 - Calling LCAS/LCMAPS over the network
- **Focus on job management**

- **PEP: Policy Enforcement Point**
 - for Java and C
- **PAP: Policy Administration Point**
 - Administration for local policies
 - Obtain and merge remote policies
- **PDP: Policy Decision Point**
 - XACML-SAML profile
- **EES: Execution Environment Service**
 - Returns the local environment within which the job will run
 - Examples: UID/GIDs, work space, virtual machine



- **Clear separation of responsibilities of VO policies and site configuration**
 - VO policies may be overridden by site managers
- **Allows remote client to obtain authorization policy at a the site as needed**
- **Use of XACML allows more complex authorization policies**
 - Note: XACML language must be hidden from (average) VO and site administrators
- **Site administrator retains full control of Execution Environment**
- **Execution Environment Service shall be extensible to allow for other execution environments than just UID/GIDs**

- **“FQAN - share decoupling” should be a configurable option from the authorization point of view**
 - Clearly this goes beyond only authorization
- **Lay the groundwork for credentials other than X.509**
- **Interfaces capitalize on common work between EGEE, OSG and Globus**
 - SAML-XACML profile
 - Consider to use same interfaces as Globus authorization framework
- **Aim for minimal dependencies**
 - standalone installation must be possible
 - Individual components should be deployable in other configurations/middleware
- **Simple command line debugging tools**

- **Currently working on detailed design of components**
- **May 08: Initial Working Design finished**
- **Dec 08: First version**
- **Summer 09: in deployment**