



# Privilege Project

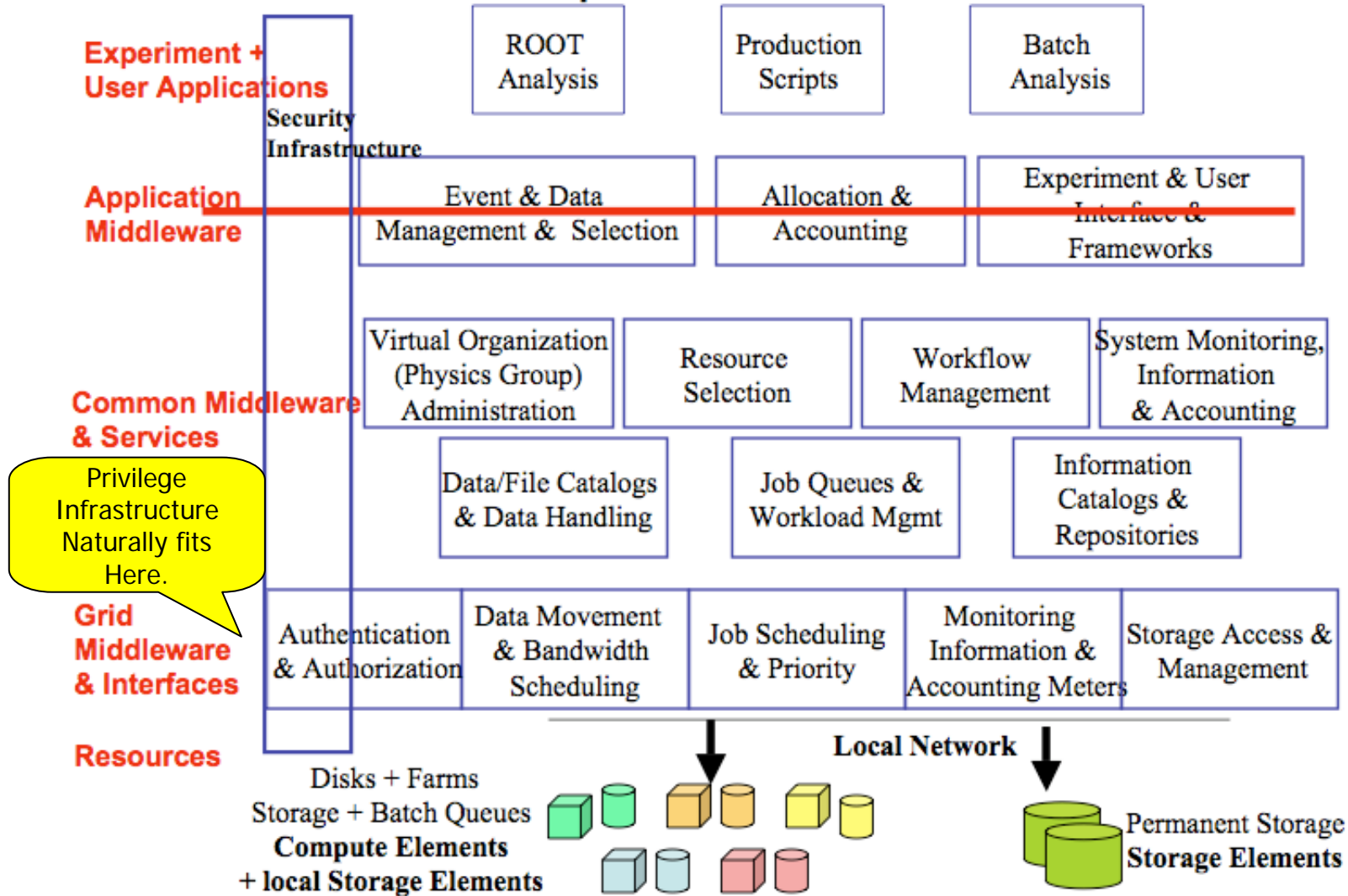
## Recent Updates

MWSG Meeting  
June 5-6, 2006  
Stanford Linear Accelerator Laboratory

Vikram Reddy Andem



# Where does Privilege fit in Grid Services



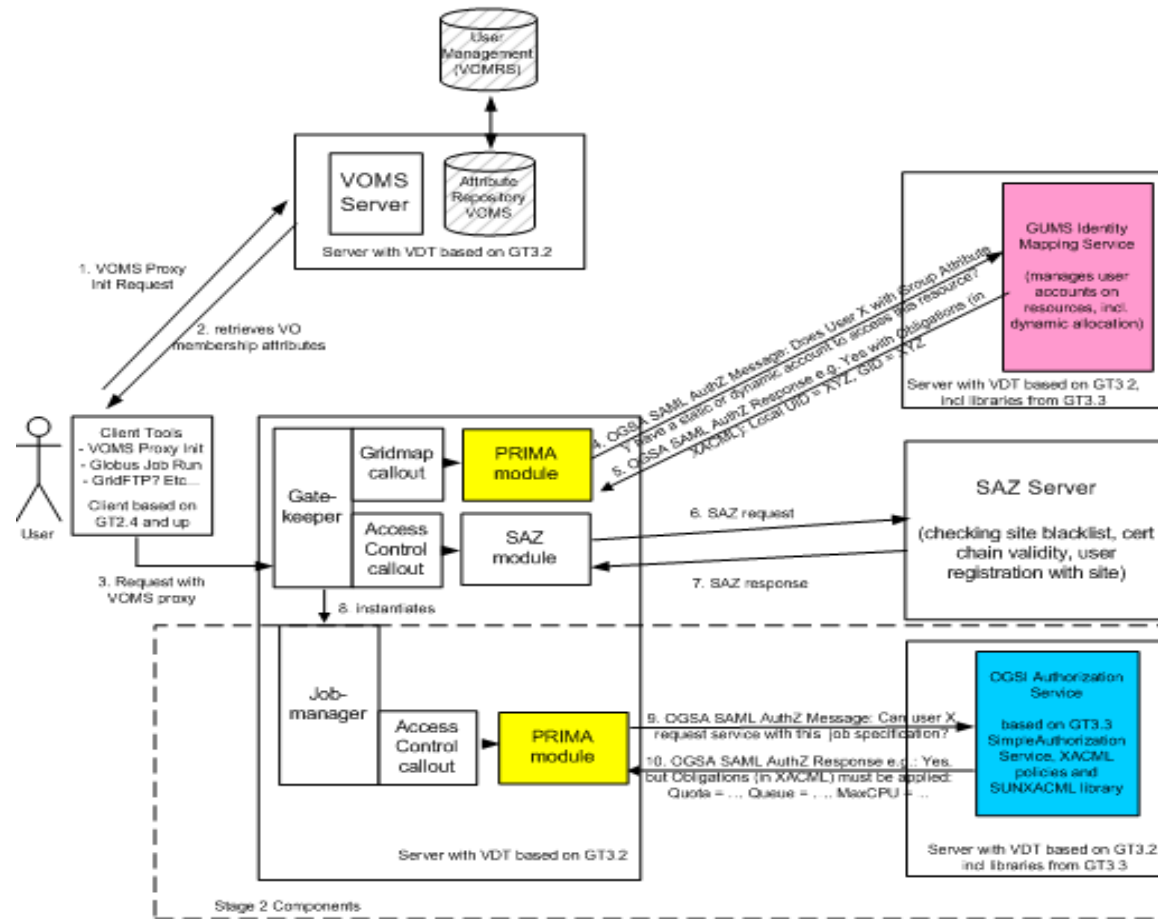


## Project Goals

The primary goal of the project was to deliver the execution call-out for finer-grained authorization of processing resources



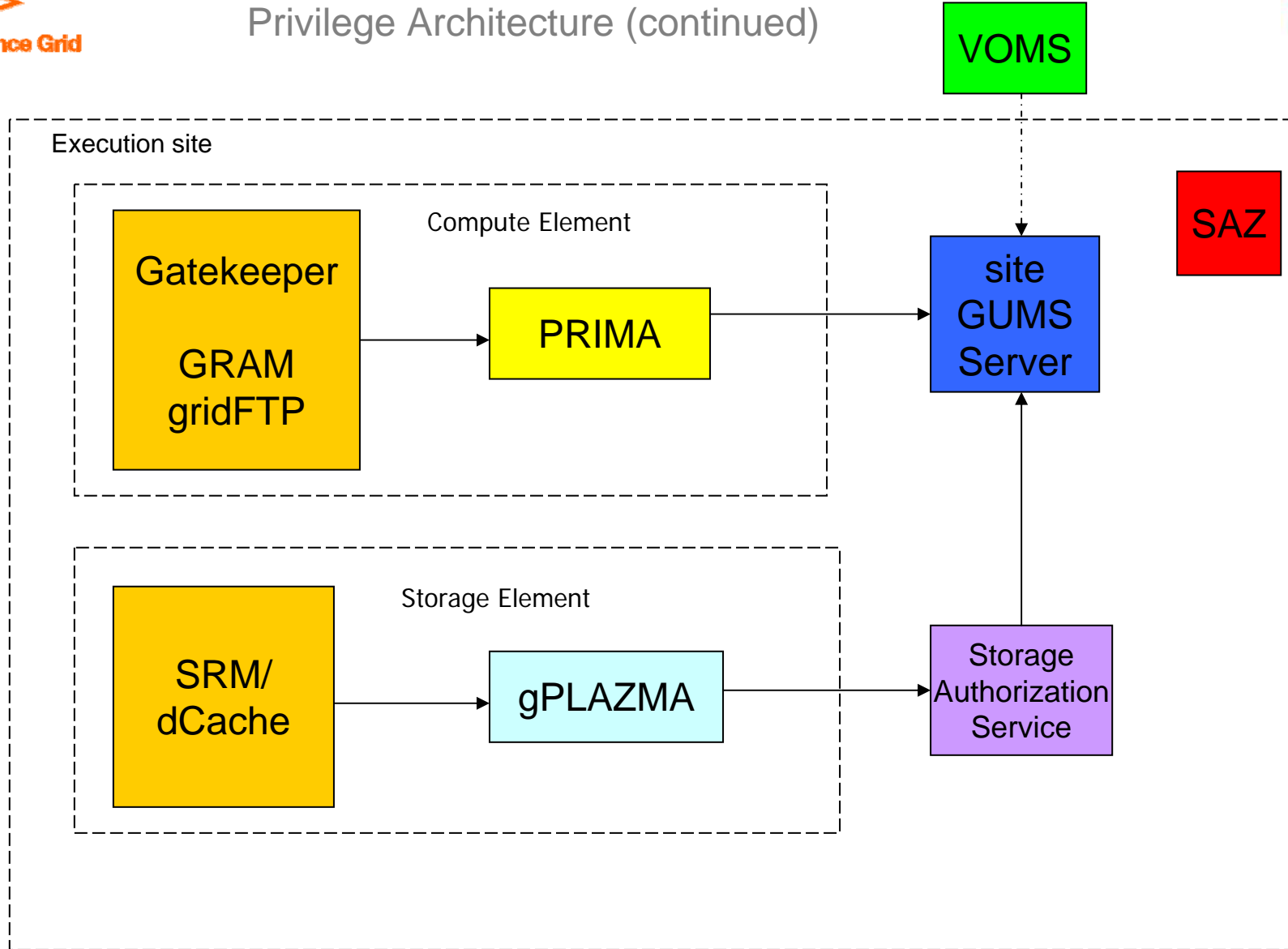
# Privilege Architecture – Compute Element



Proposed architecture (Dane Skow, Markus Lorch, Ian Fisk) 04/2004



# Privilege Architecture (continued)





## Project Achievements

- Privilege has delivered an infrastructure that has been deployed on OSG
  - The authorization system has been deployed on all CMS-T2 centers, the T1 at FNAL, FermiGrid, BNL, etc.
  - CMS and ATLAS have defined roles that can be implemented within VOMS
  - VOMS extended proxy is parsed by the callout and given to GUMS for authentication
- The release for the pre-web service globus-gatekeeper callout is stable
  - Relatively light operations support
  - A couple of tickets a month, so far rapidly solved



## Recent Advances and News

- Prima Web services callout for GT4 has been developed and is currently distributed with VDT 1.3.9
- Prima 64-bit callout version has been developed and is currently distributed with VDT 1.3.9
- As a part of the Policy, Publication and Trust Project we delivered
  - VO Policy Template for Open Science Grid
  - Site Policy Template for Open Science Grid
- Transition of Privilege Project leadership (Gabriele Garzoglio)
  - gPLAZMA (Abhishek Rana, UCSD / Ted Hesselroth, FNAL)
  - GUMS (John Hover, BNL)
  - PRIMA (Vikram Andem)
  - SAZ (Valery Sergeev, FNAL)
  - SRM/d-Cache (DESY/FNAL teams)
  - VOMS (INFN team, Italy)
- Working with Igor Sfiligoi (INFN) on Glexec SAML callout to GUMS



# Current Activities

- Support PRIMA and GUMS code for 32/64 bits for GT2 and GT4 for CMS T1&2 + OSG VO (best effort) (50% Vikram)
- Deploy and support gPlazma infrastructure for CMS Tier 1&2 (important for SRM v2 deployment) (50% Ted for 3 mo)
- Fix GUMS memory management problems (John Hover et al.: up to .5 FTE for 3 weeks)
- Stress test of the GT4 PRIMA call-out (John W.: 5 FTE days)
- Integration of gLexec with Privilege (8.5 FTE weeks)
- Integrate GUMS with a monitoring/alarm infrastructure (.2 FTE/2 mo)





## Future Plans – Ideas ?

- Simplify / Aggregate architecture
  - Update communication protocols (from extended SAML v1.1 to SAML v2.0)
  - Improve PRIMA build process
- Publication of role-based privilege policy (with EGEE)
- Extend privilege enforcing to network management
- Long term directions
  - Investigate direct DN rights enforcement (no UID mapping)
  - Integrate Privilege Project with Policy Discovery Services



Questions ?