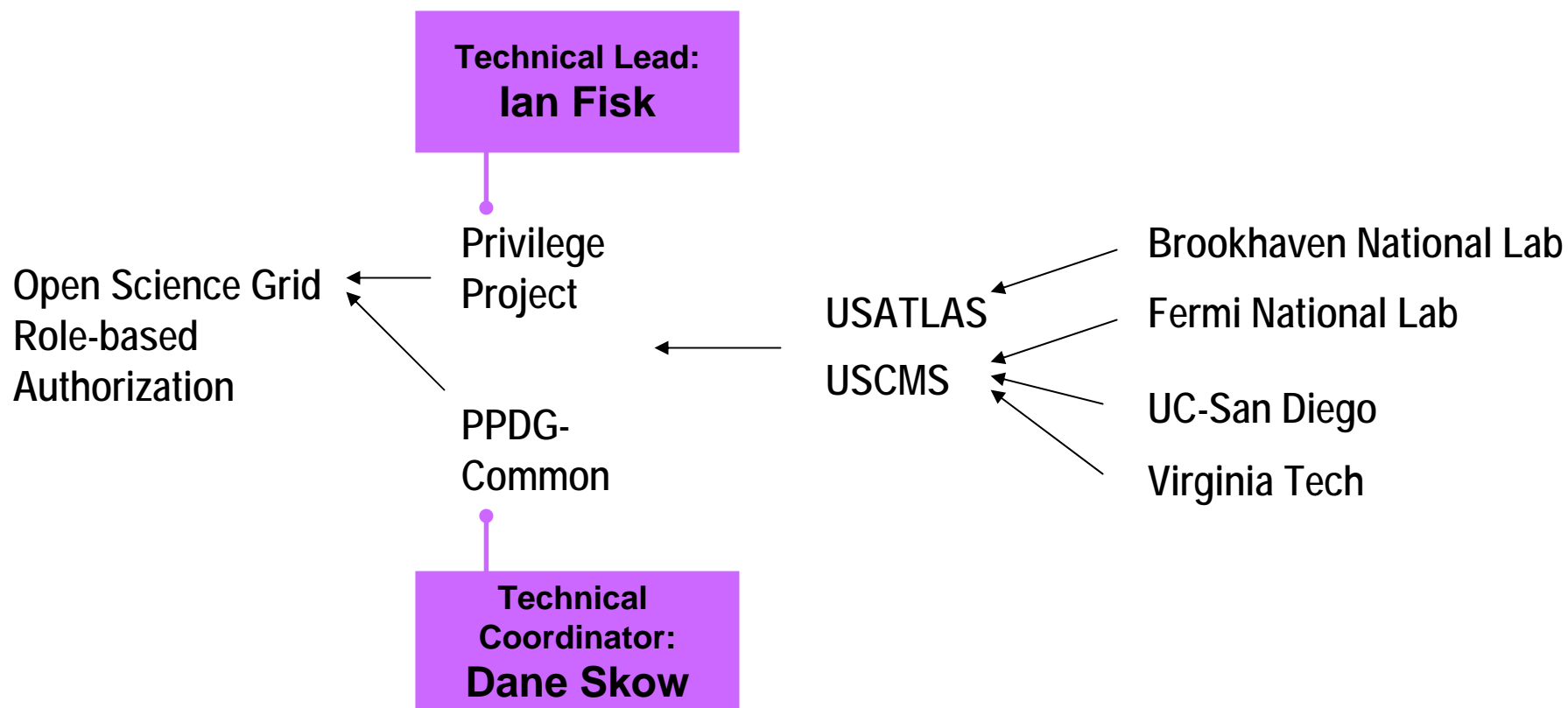

Open Science Grid Role-based Authorization Architecture

Abhishek Singh Rana, Frank Wuerthwein
(presenting the work of many)

Collaborative Effort



Open Science Grid

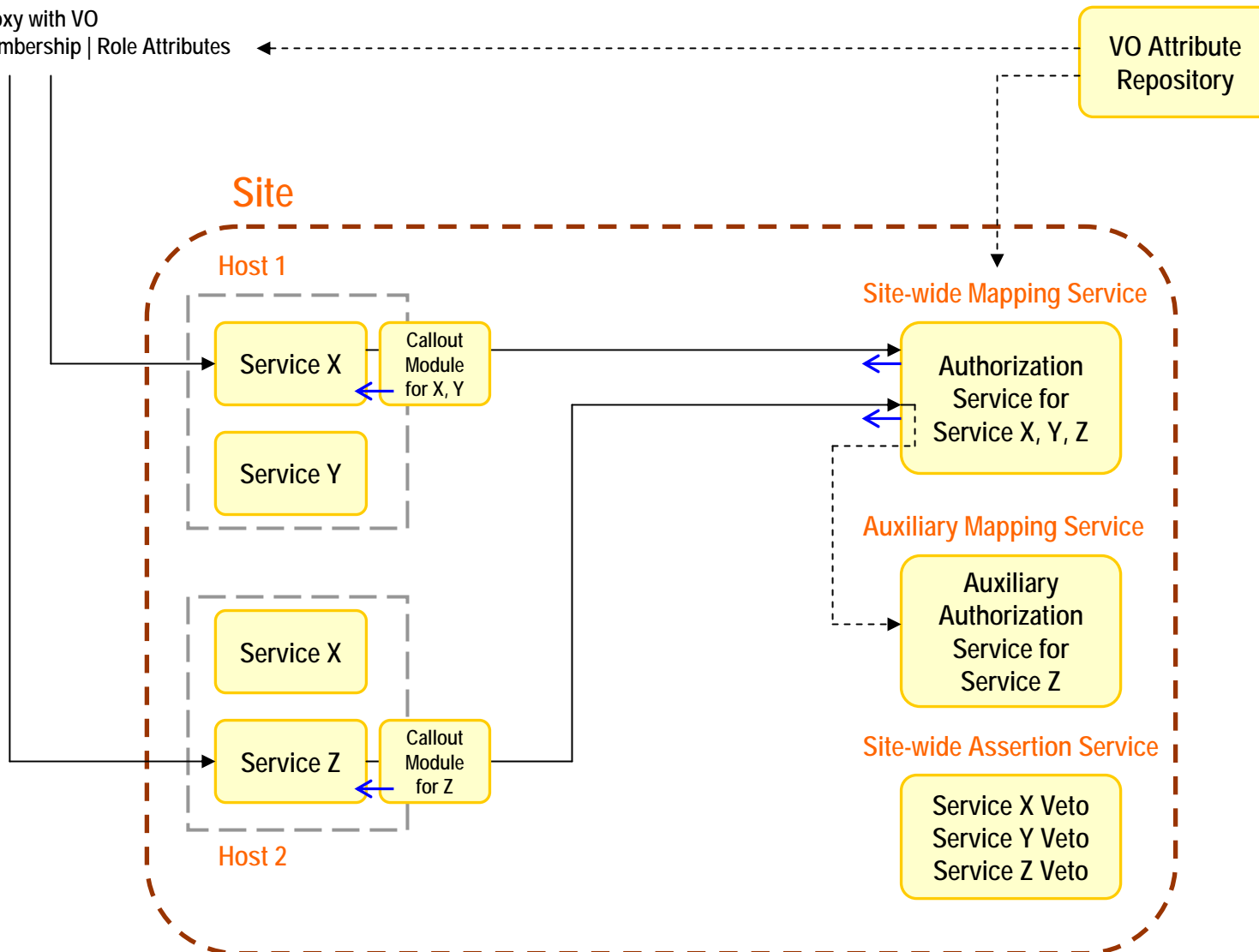
Role-based Authorization Architecture

Goals:

- Move from host-based to site-based authorization.
 - authorization = !(Site-vetoed) && (VO-allowed)
- Move from host-based to service-based granularity for authorization.
- Allow humans to have multiple roles.
 - Same DN can have multiple roles with privilege depending on role.
 - Multiple roles per DN means multiple privileges, at the same time.
- Create multi-user environment in which traditional UID based auditing is possible if desired.

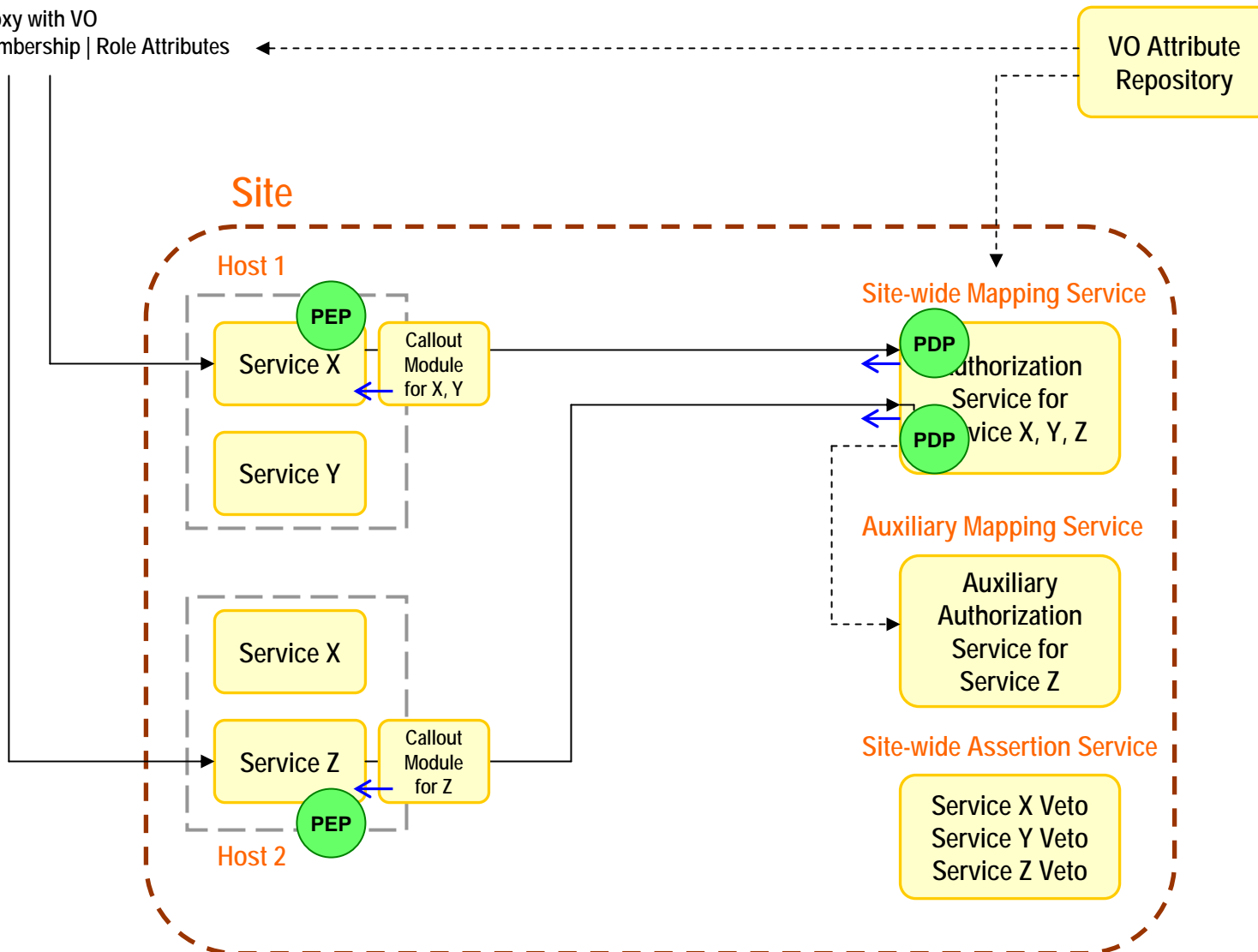
Local or Remote Client

Proxy with VO Membership | Role Attributes



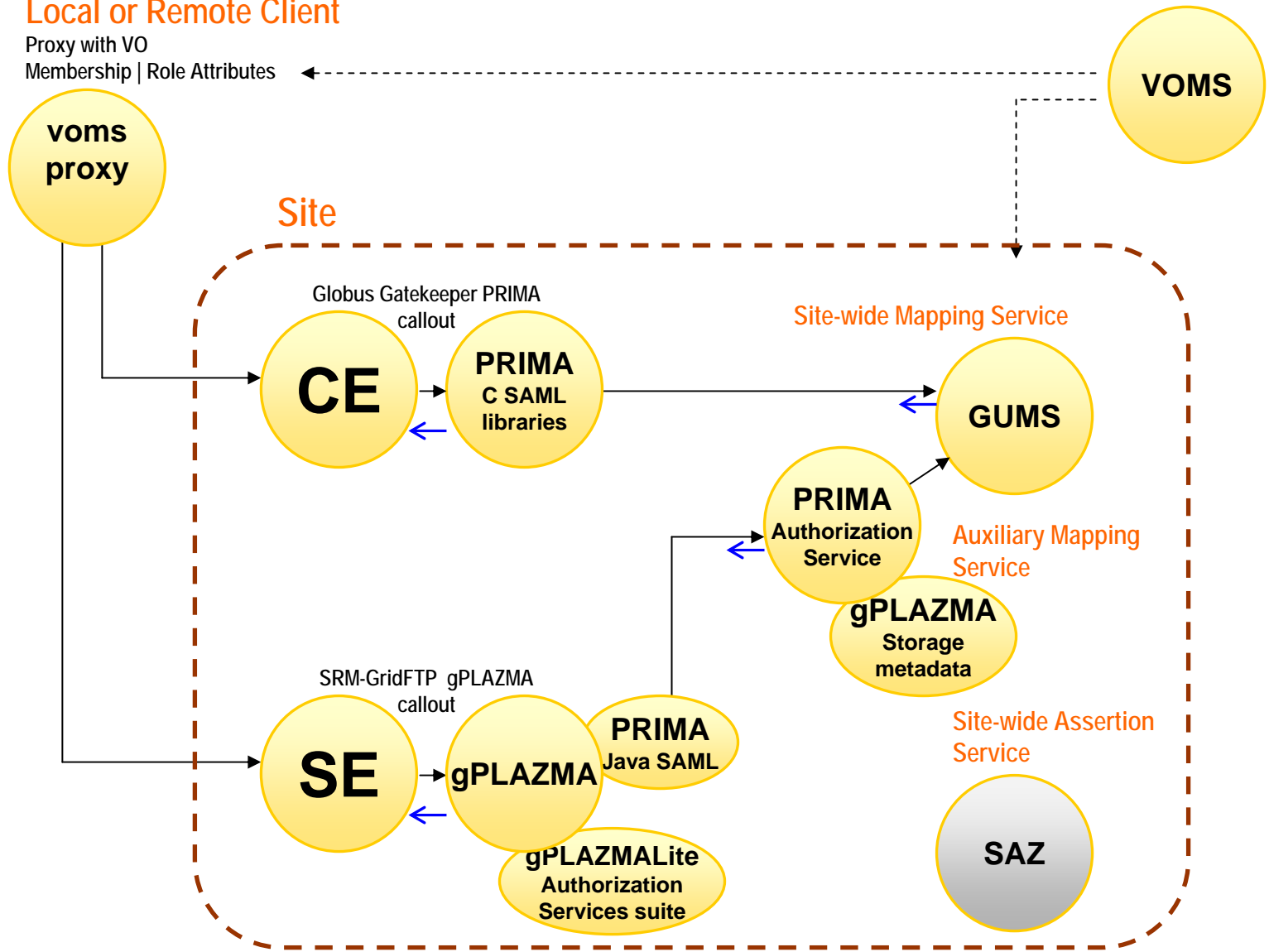
Local or Remote Client

Proxy with VO Membership | Role Attributes



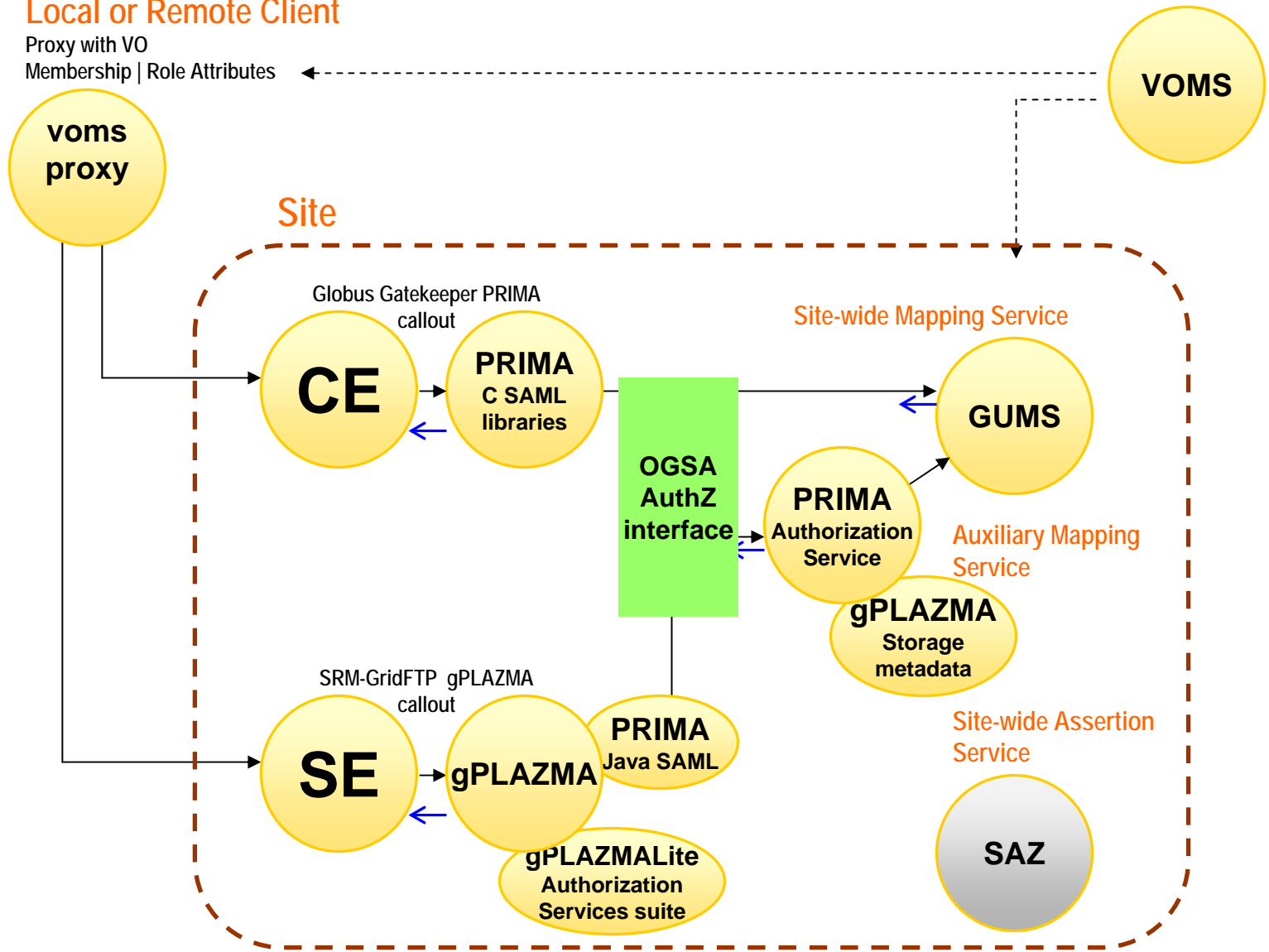
Local or Remote Client

Proxy with VO Membership | Role Attributes



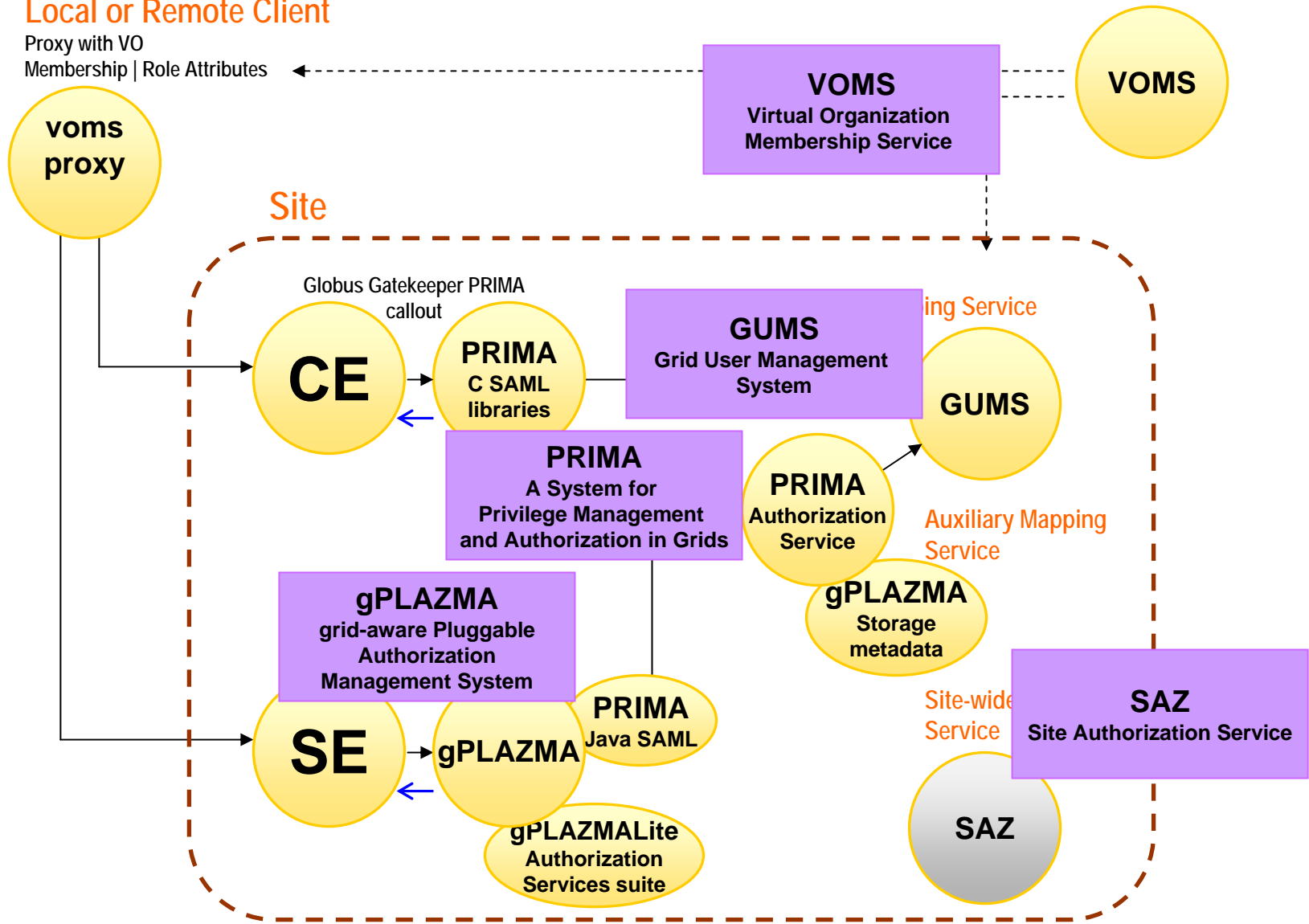
Local or Remote Client

Proxy with VO Membership | Role Attributes



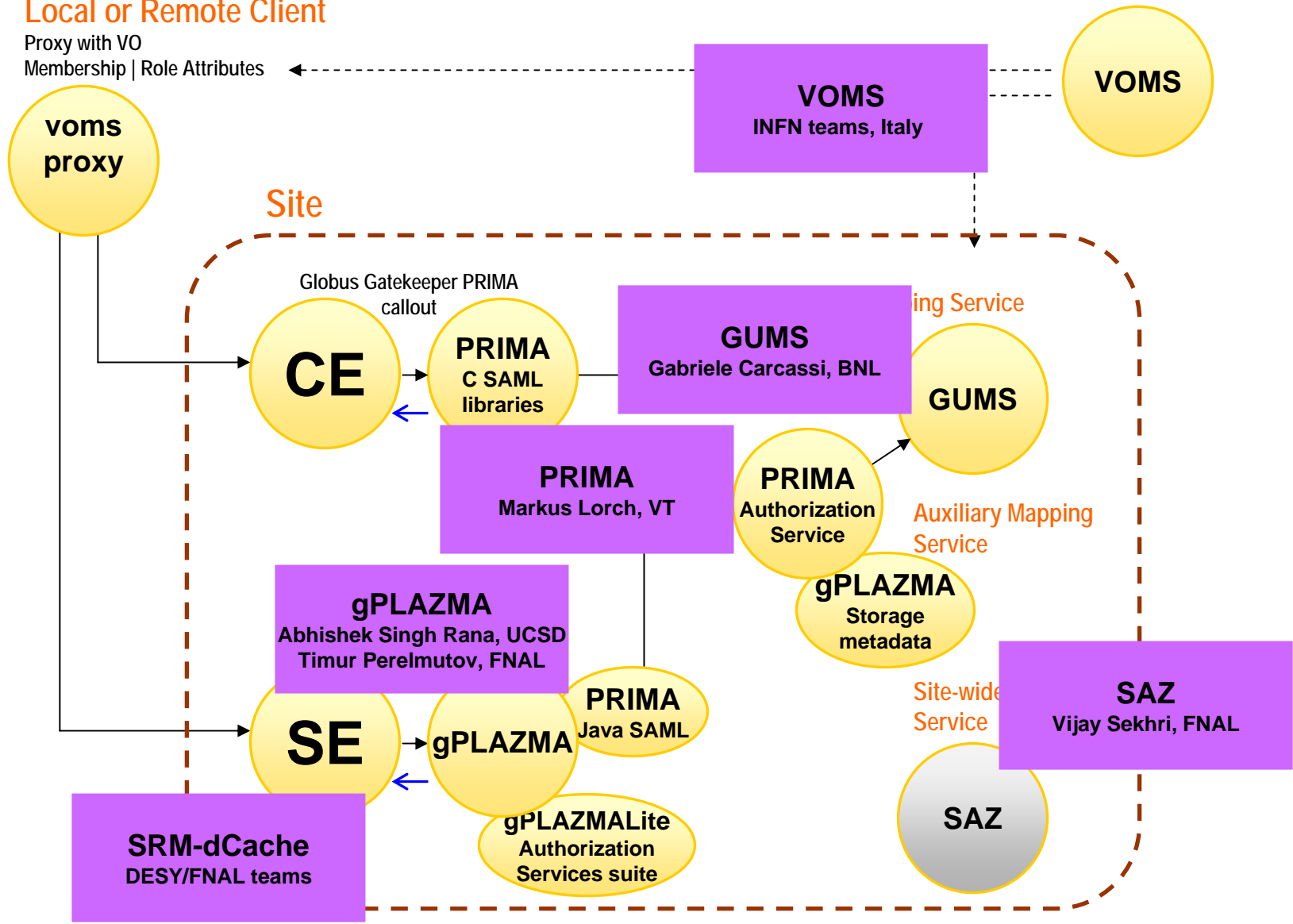
Local or Remote Client

Proxy with VO Membership | Role Attributes



Local or Remote Client

Proxy with VO Membership | Role Attributes

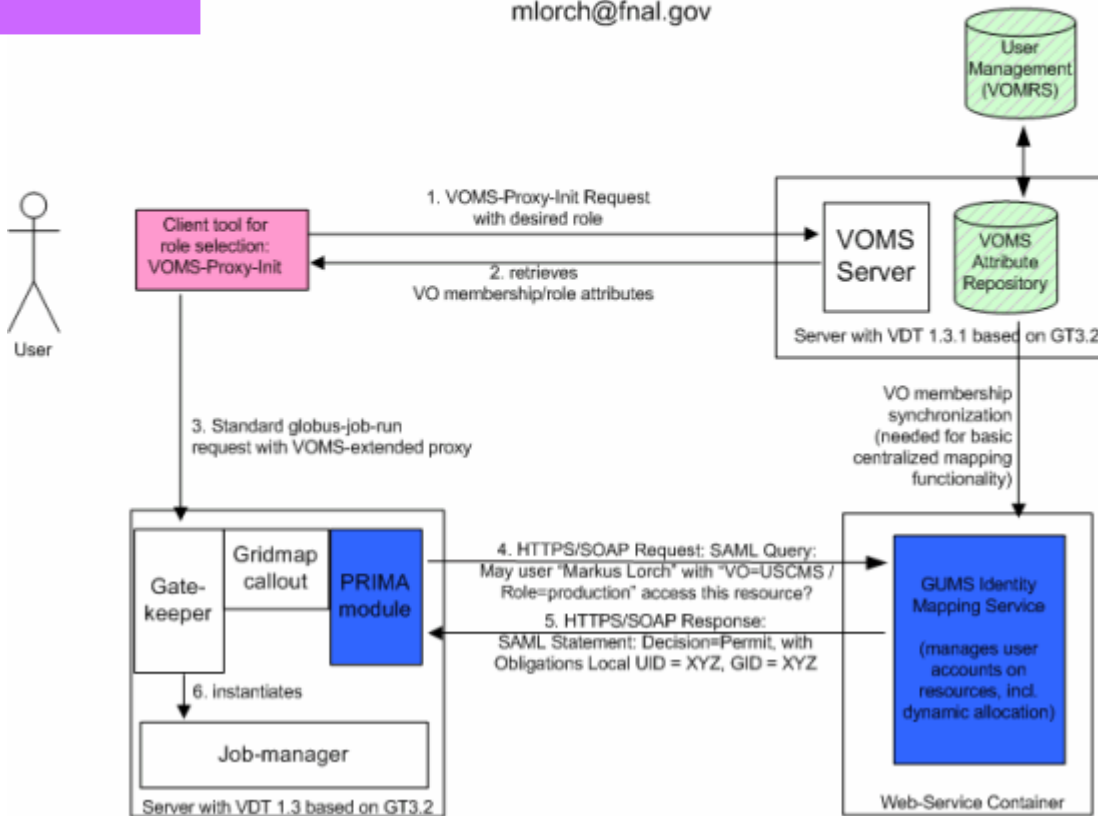


Authorization Architecture Compute Node Functionality for OSG-0

FNAL Privilege Project

Version 4 - 2005-01-09
mlorch@fnal.gov

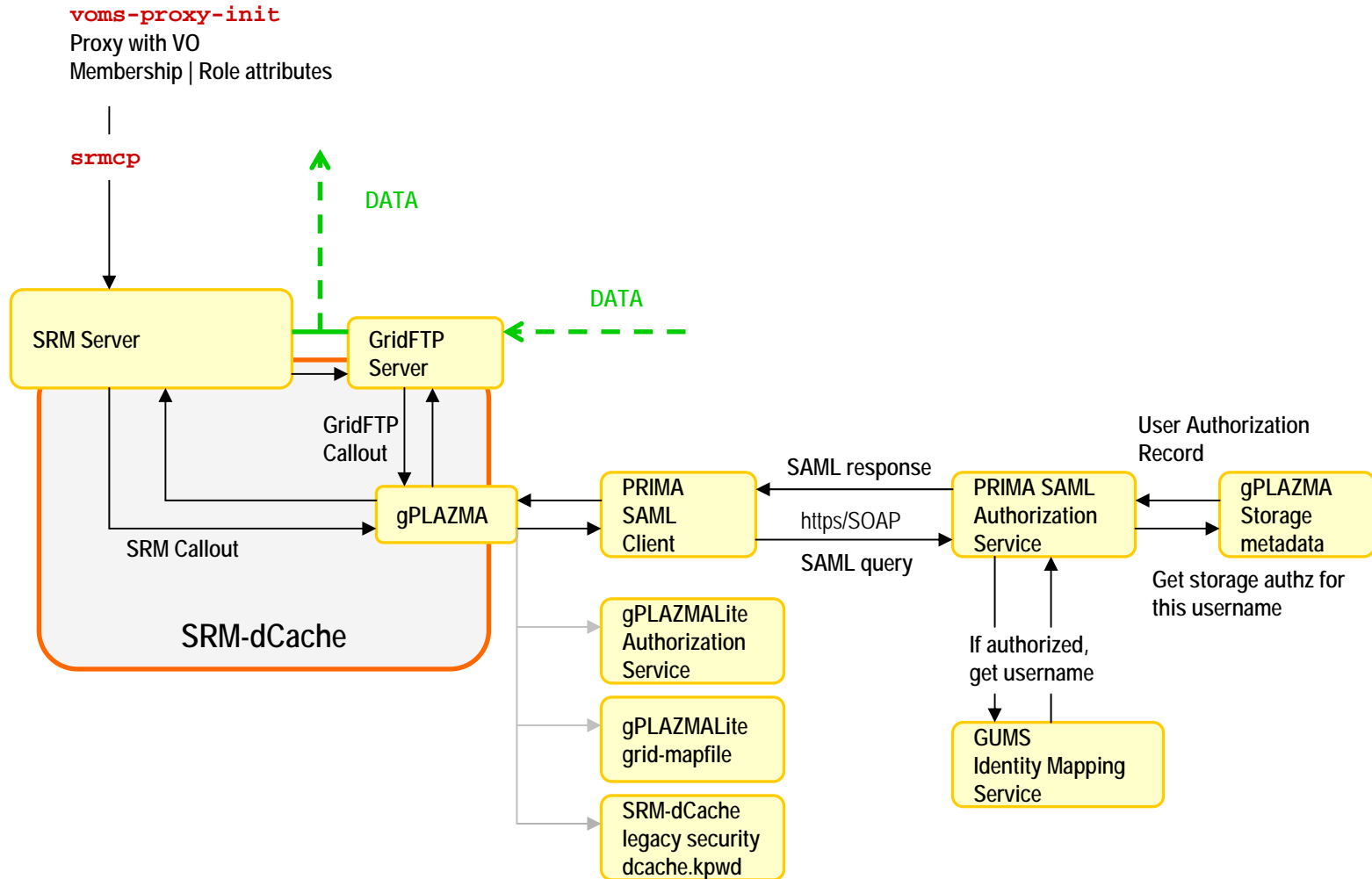
Slide by:
Markus Lorch, VT



Authorization Architecture

Storage Element (SRM-dCache) functionality

(currently in alpha testing phase)



Status

- PRIMA: Already deployed+used on OSG ITB (Spring'05)
- GUMS: Already deployed+used on OSG ITB (Spring'05)
- gPLAZMA: Planned for Summer'05 deployment on Tier1 and Tier2 sites (tied to SRM-dCache, may not get deployed on all OSG sites).
- Storage Authorization Service (PRIMA-GUMS-gPLAZMA): Planned for Summer'05 deployment on Tier1 and Tier2 sites (tied to SRM-dCache, may not get deployed on all OSG sites).