



Role-based Authorization in SRM-dCache

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LCG Baseline Services

“The storage system should respect permissions on directories based on VOMS roles and groups.”

-Working Group Report, June 24, 2005

- Roles assigned by VO according to expected functions
- Privileges granted by site according to role
- Roles used in both Compute Elements and Storage Elements.



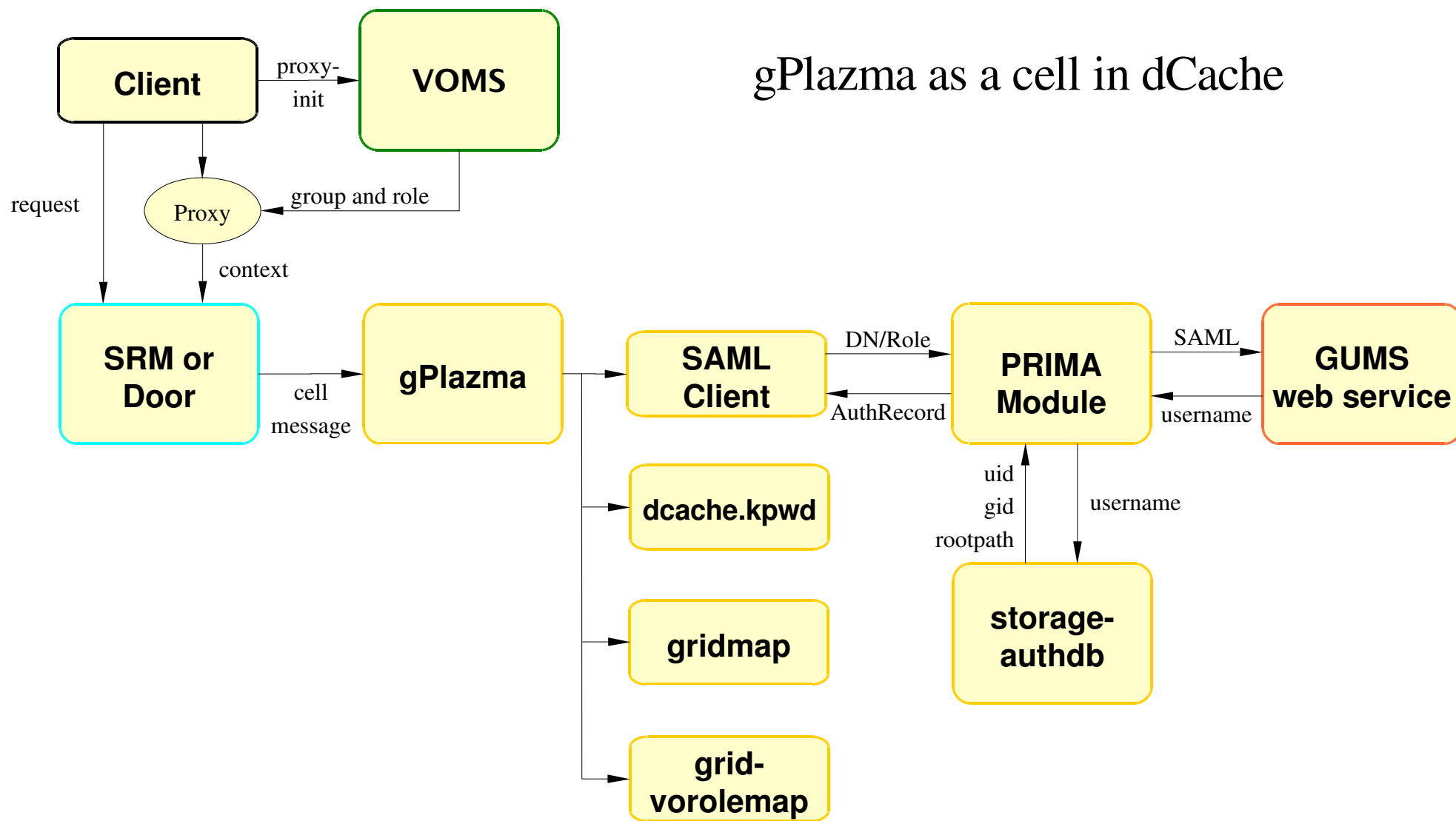
Software Components

- VOMS
- voms-proxy-init
- srmcp
- SRM-dCache
- gPlazma Cell
- Privilege jar
- GUMS



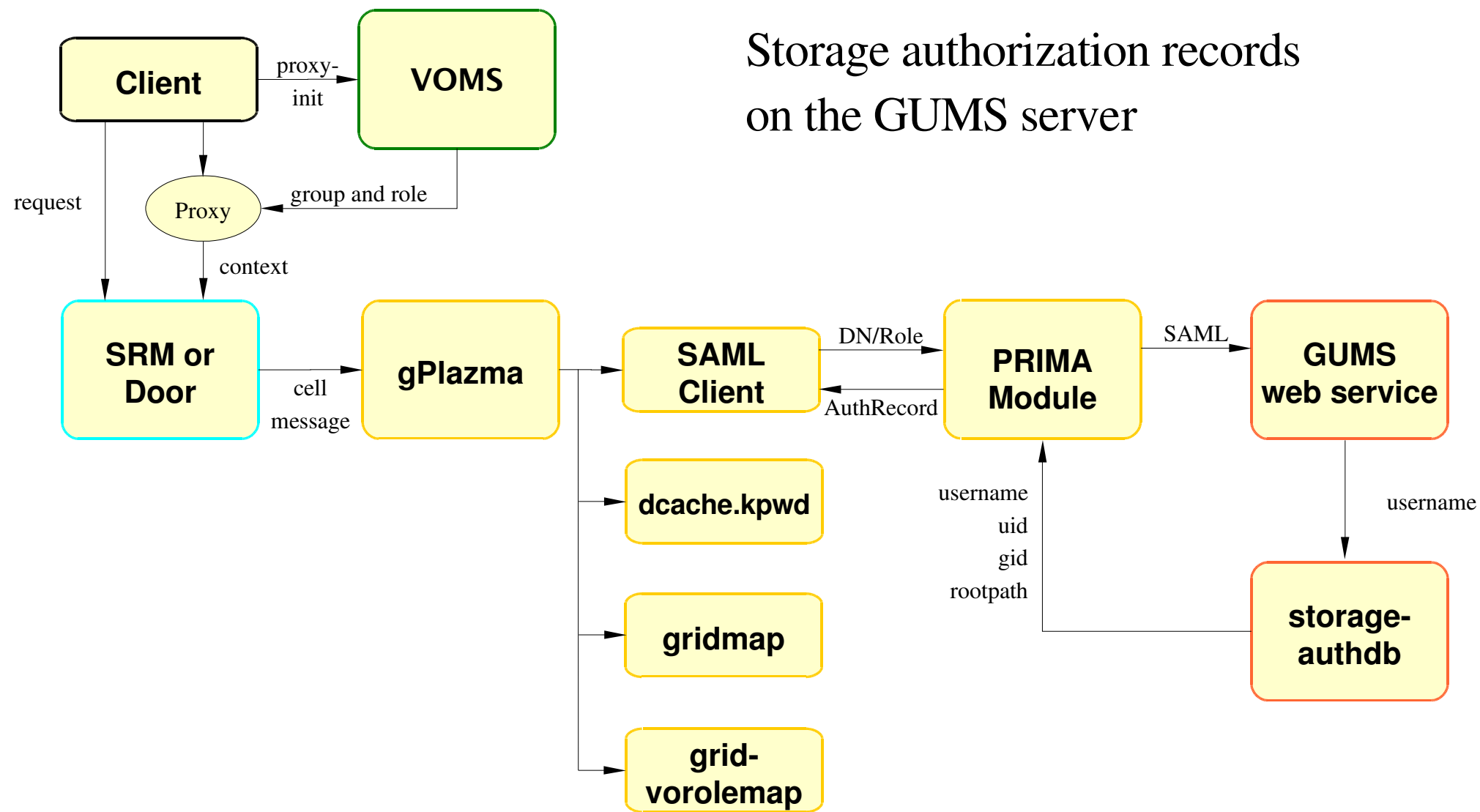
gPlazma Authorization

gPlazma as a cell in dCache



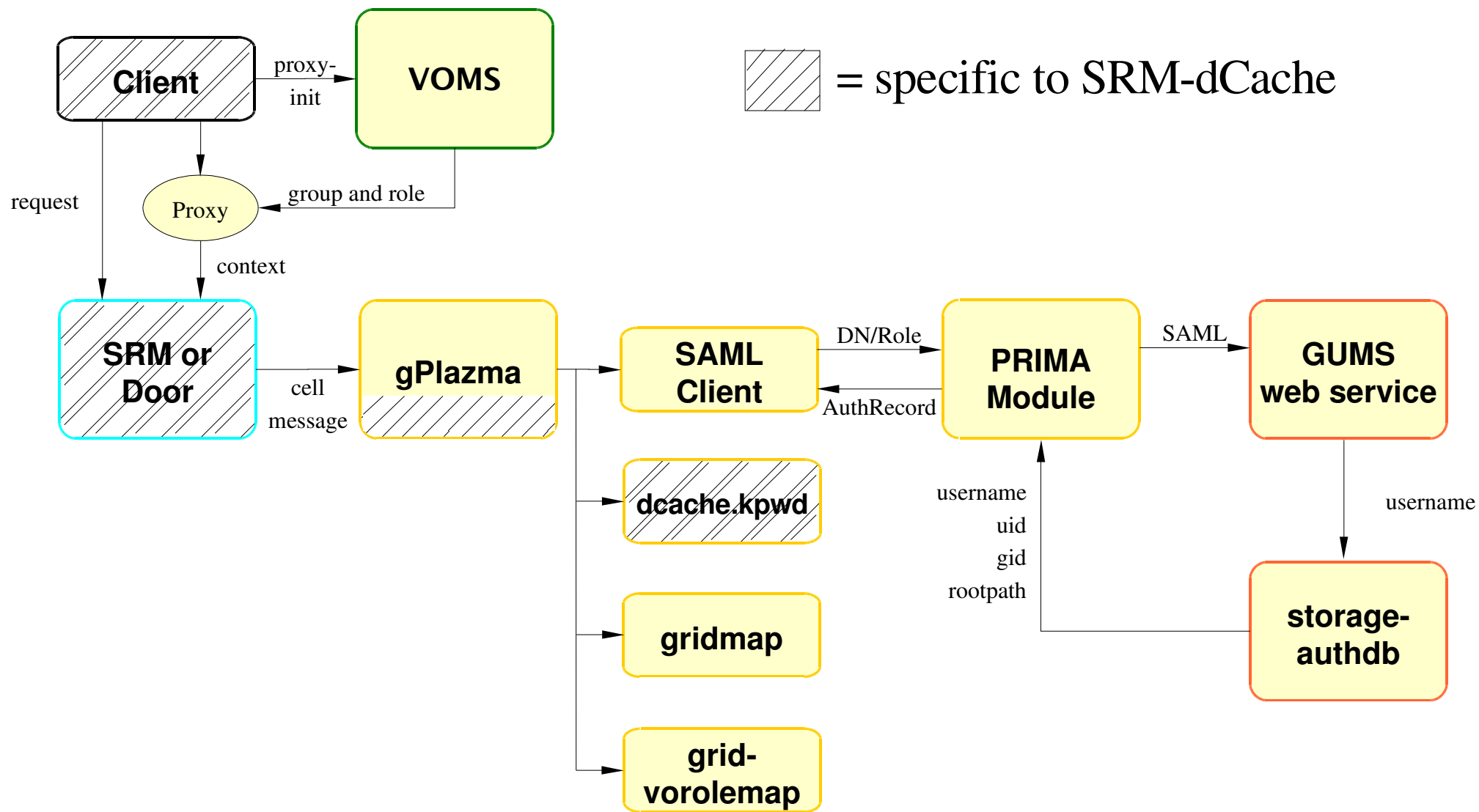


AuthDB Web Service





SRM-dCache Code





Future Developments

- Dynamically assign rootpath based on DN
 - User's directory independent of site.
- Fallback gPlazma cell
 - Current fallback is authorization on each node.
- Synchronization of GUMS and storage-authdb.
 - Possibly common database if deployed as GUMS extension.
- Assign transfer priority
 - Support more rapid completion of transfers for certain roles.