

# gPLAZMA

Release 0.1 for dCache-SRM  
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- 1 **Built-In Quasi-Firewall** for Grid Incident Response. Shut all Site Storage Access with no need to stop Storage Systems.
- 2 An integrated Service (gPLAZMA module) for **SRM/GridFTP callouts** in dCache-SRM.
- 3 **Four modes.** Four Authorization Services dynamically loadable with four Plugins. Policy Declaration using **Switches** and **Priority** of each mode, for Sites using multiple modes.
- 4 Two **Add-on** Authorization Services.
  - A. Fine-grain Security (Privilege Project).
  - B. Legacy Storage-security (dCache.kpwd).
- 5 Two **Built-In** Authorization Services. gPLAZMAlite Services Suite.

**Built-In Lightweight** Authorization Services. **1**  
 A. Fine-grain security (gPLAZMAlite).  
 B. Legacy Grid-security (grid-mapfile) for Storage.

**Fine-grain Security Out of the Box.** Lean and Light Solutions for Small Dynamic Real or Virtual Organizations. **2**

**Extensible** Design. Primary focus on Storage (dCache). Applicable to other Resources. **3**

## gPLAZMAlite Services Suite

grid-aware **PL**uggable **AuthoriZ**ation **MA**nagement

Authorization Services   Modes	Legacy Authentication and Authorization	Fine-grained Security (VO Roles)	FTP-specific Desired Usernames	Centralized Management
<b>gPLAZMA</b> lite grid-mapfile	✓		✓	<i>planned in future</i>
dCache dcache.kpwd	✓		✓	<i>planned in future</i>
Privilege Project VO-Role Mapping		✓		✓
<b>gPLAZMA</b> lite VO-Role Mapping		✓	✓	<i>planned in future</i>

### Architect | R&D

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### Credits

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USCMS/USATLAS Privilege Project  
Particle Physics Data Grid Common Project  
DESY/FNAL dCache Teams  
US CMS Management Team

All Developers of Third-party Software

grid-aware **P**Luggable **A**uthori**Z**ation **M**Amanagement