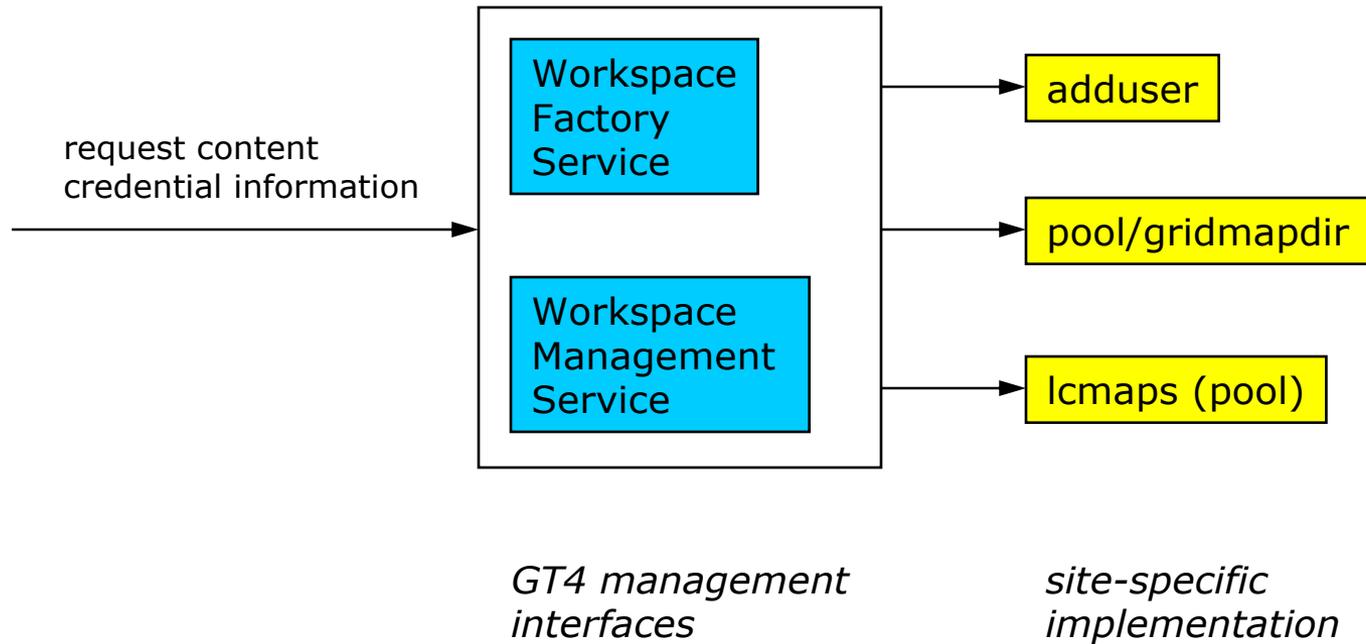


Workspace Management

Kate Keahey

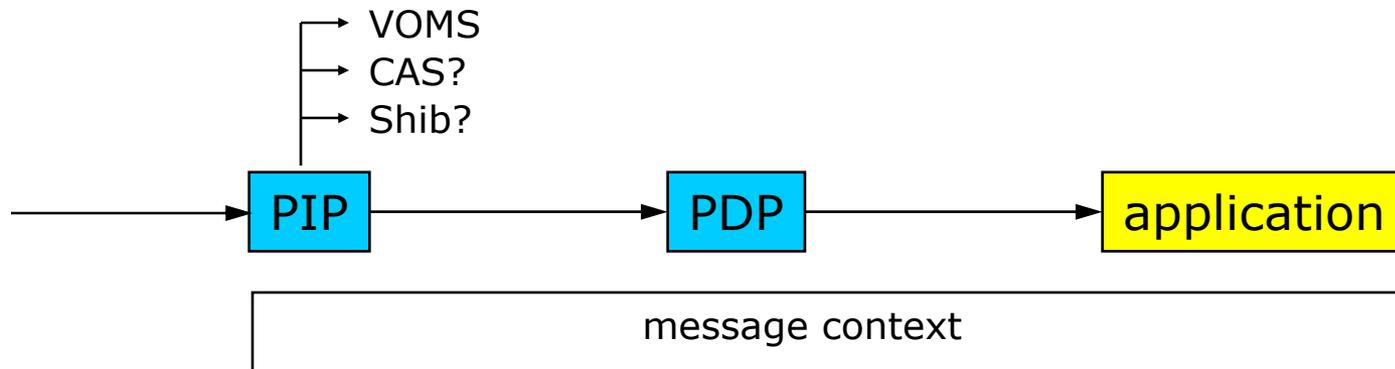
keahey@mcs.an.gov

Architecture



Policy and Attribute Processing

- Two objectives
 - ◆ Authorization
 - ◆ Application-specific customization



Workspace Policies

- Creation (Factory)

- ◆ Authorization via a DN ACL

```
/DC=org/DC=doegrids/OU=People/CN=Timothy Freeman 964650  
/O=Grid/OU=GlobusTest/OU=simpleCA-prnb3/CN=TimF
```

- ◆ Authorization via an attribute ACL

```
/EGEE/egee/manager  
/egtest/mytemp/Role=NULL/Capability=NULL
```

- Workspace Management

- ◆ Currently workspace “owner” only, DN-based, but provisions for others

- Account Access Policy

- ◆ Specify a list of DNs at creation (deprecated)
- ◆ “owner” access is implied
- ◆ Enforcement depends on infrastructure
 - Plugins configure gridmapfile, lcms structures

Backend Example: LCMAPS

- Creation
 - ◆ Call LCMAPS poolindex function
 - DN+attr -> pool lease + groups
 - Configurable files describing the mapping
 - ◆ Creates a hardlink
- Termination
 - ◆ Via destroy or TTL
 - ◆ Setuid: expire the lease
 - ◆ Quarantine (create a quarantine hardlink)
 - ◆ Callout to clean: kill processes, delete files, revert groups back to default

Status

- Implemented in GT4
 - ◆ Currently used with GT2 GRAM
- Not part of the GT distribution currently
 - ◆ “alpha testing”
- Leverages GT4 features
 - ◆ GT4 logging for audit etc.
- The LCMAPS backend currently the only one really supported
- Team
 - ◆ Rachana Ananthakrishnan
 - ◆ Karl Doering
 - ◆ Tim Freeman
 - ◆ Kate Keahey