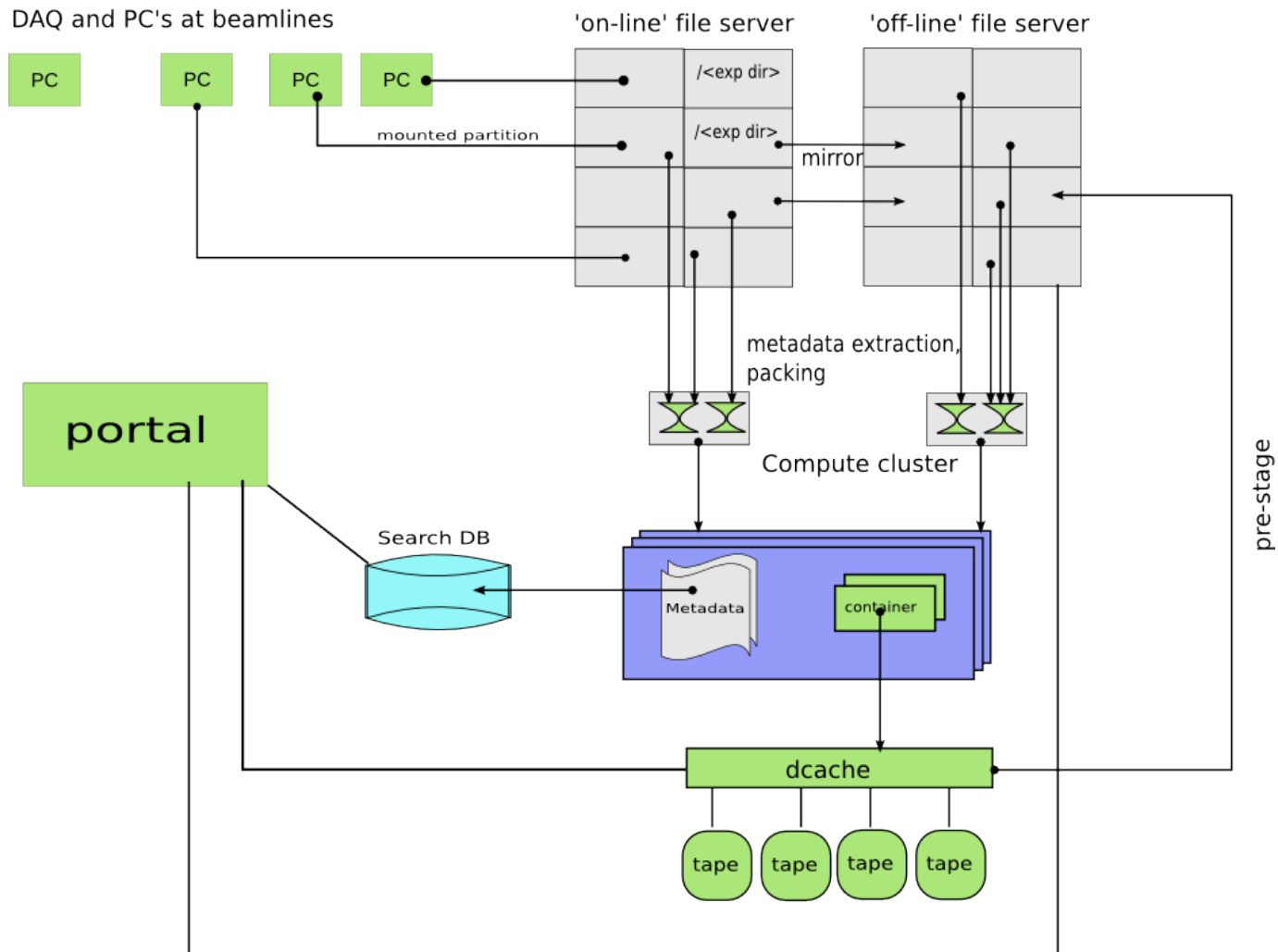


# Data management portal

I Agapov

# A typical data management system architecture

HASYLAB STORAGE MODEL



## Use-cases for data management portal

Actors: beamline responsible, project manager, users

- After measurement data migrated into archive and corresponding metadata generated
- Search/browse datasets based on metadata/by proposal
- Download
- Upload
- Project manager controls access to the data collections
- Beamline responsible controls data migration process (start/stop/choose parameters) through a web interface
- If simple common standard analysis jobs can be identified start them thru web interface

## Software architecture:

storage, user management and  
beamtime management (workflow)  
are connected through adaptors

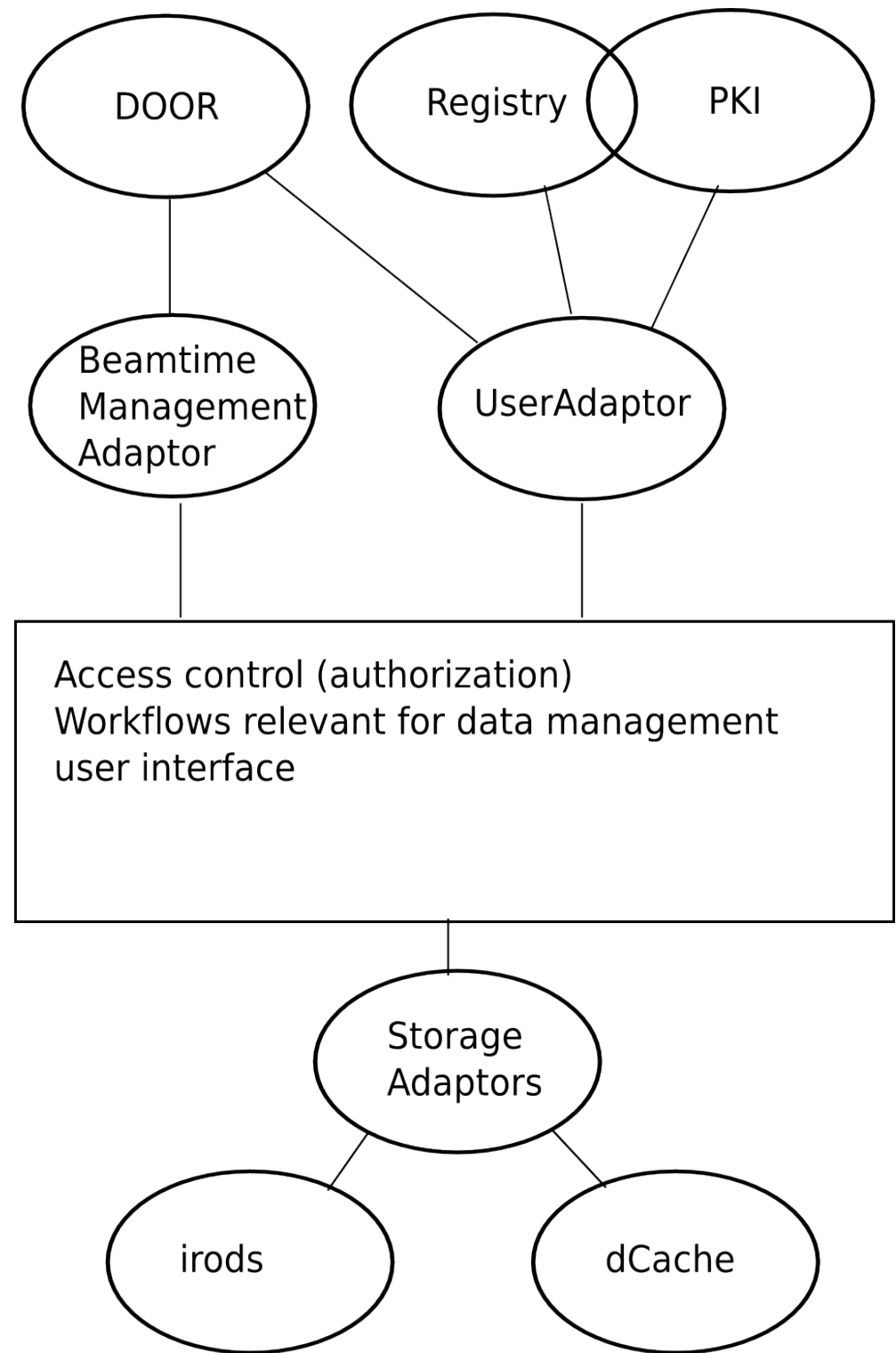
java core classes + servlets + jsp +  
javascript + ajax

metadata DB oracle/mysql

jms for communication with migration  
processes

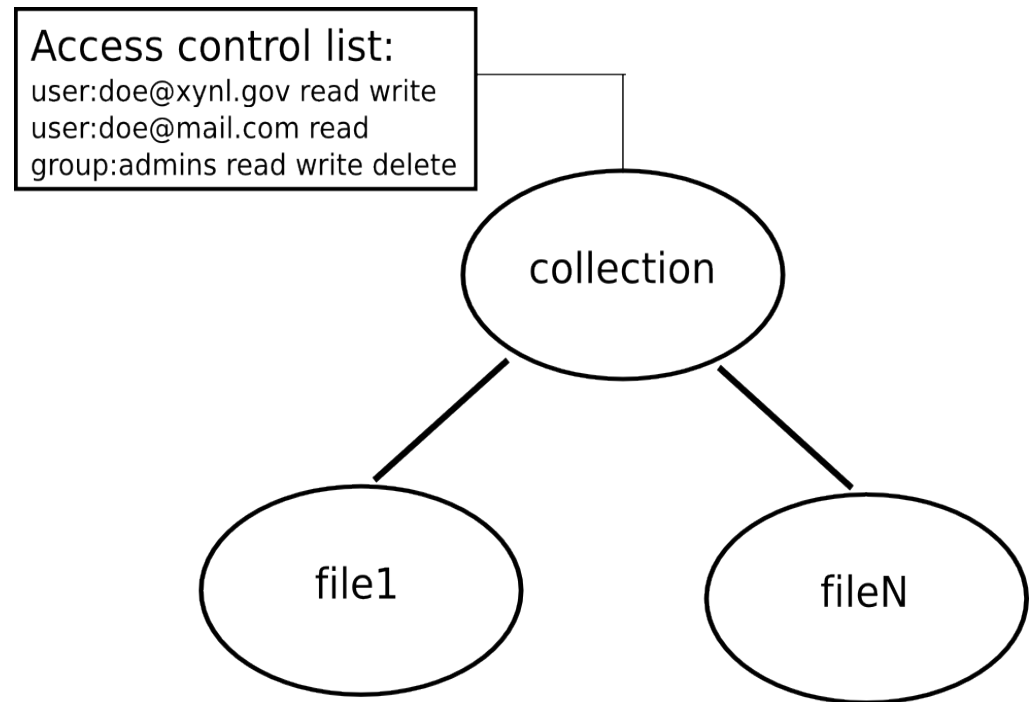
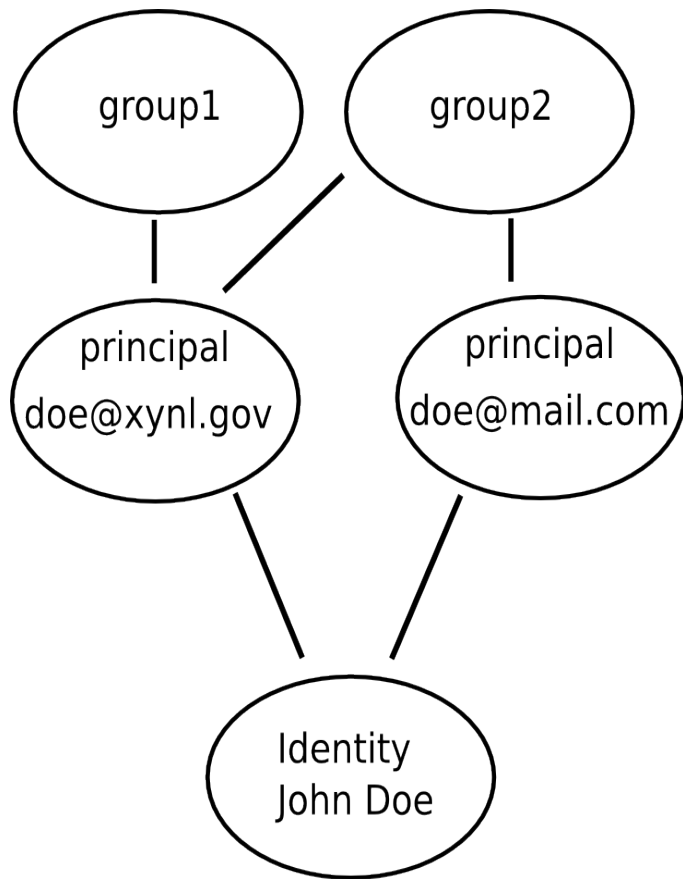
User adaptors: door, desy kerberos, x509

Storage adaptors: iRods, dCache  
(external metadata DB + WebDav + gridftp)



# Security and data management

a person might have several principles; principals belong to groups; access control done per collection



Demo (based on door integration)

# Plans

- Testing
- Improving user interface and understanding usability issues
- Performance improvement (metadata queries and download)
- Implementing prototype analysis workflows
- Further requirements?
- Release for public testing Sep 2010?