Information/Configuration Systems

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Common Projects - Brainstorming
Current components and interactions within the WLCG IS

- ALICE DB
- LHCb DB
- ATLAS DB
- CMS DB
- EGI GOCDB
- OSG OIM

Monitoring

VO feed

Downtimes and sites

- Top BDII
- Site BDII
- Resource BDII

Opportunistic Resources

WLCG Resources
Towards a simplified and integrated WLCG IS

Monitoring

VO feed

ALICE DB

LHCb DB

ATLAS DB

CMS DB

API

Resource BDII's

WLCG Resources

Site BDII's

Top BDII's

Opportunistic Resources DB

EGI GOCDDB

OSG OIM

WLCG Resources

Common Projects - Brainstorming - November 2013
Areas for improvement (I)

- Main IS components (GOCDB/OIM and BDII)
  - Already under discussion within the Infosys task force
  - Ensure VO DBs can be configured by only using a single IS entry point
    - A unique API will hide the underlying complexity
    - Flexibility to add/remove new components to the IS (see opportunistic DB)
    - Move more static info to GOCDB/OIM and leave dynamic info on the resource BDII
      - Are the site and top BDIIIs actually needed? Is it enough with the resource BDII?
  - Consider other technologies
    - Could we use messaging instead of LDAP to publish dynamic information?
- Publication of sites offering cloud resources
Areas for improvement (I)

- **VO DB**
  - There are currently 4 different abstraction layers to gather VO specific information
  - We could profit from existing implementations and share the way VOs interact with the IS
    - Reduce the duplication of effort by using a common approach

- **Opportunistic DB**
  - Identify how experiments are currently using opportunistic resources
  - Implement a DB where opportunistic resources could be declared