

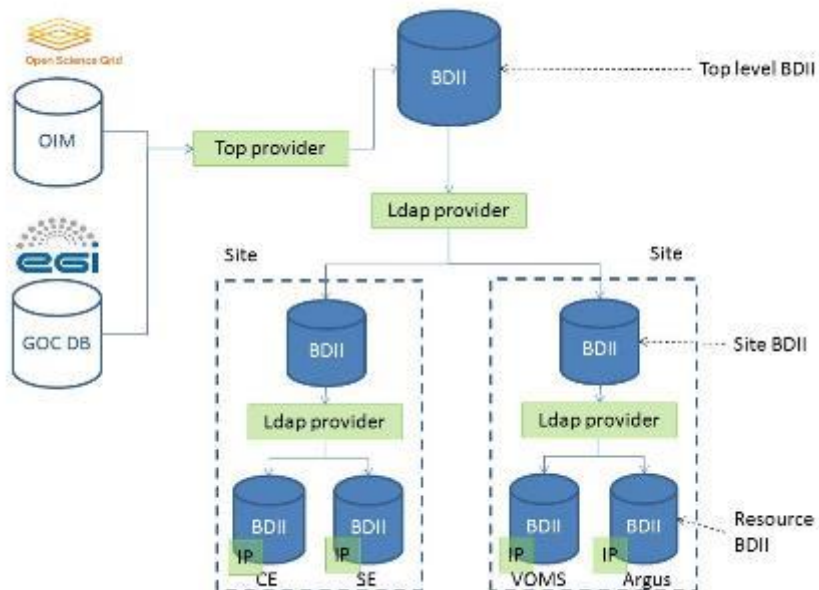


Information System Discussion Introduction

WLCG workshop
1st February 2016

WLCG Information System

- There are many IS in WLCG:
 - WLCG IS
 - Experiments IS: AGIS for ATLAS, DIRAC for LHCb
 - REBUS
- In this discussion we refer to the WLCG IS
 - Currently relying on:
 - GOCDB and OIM to get the list of sites
 - Information Providers to get the actual information from sites and services
 - BDII hierarchy to publish the information



Strategy under discussion

- The IS TF is trying to evolve the current IS to something...
 - More flexible
 - Accept other information sources than the BDII
 - Accept more formats than only LDAP/LDIF
 - More reliable
 - Enforce validation of information before it gets published
 - Provide clear guidelines on how to publish information (i.e. benchmark values)
 - Simpler
 - Do we need the BDII and the whole GLUE schema to fulfil WLCG use cases?
https://espace.cern.ch/WLCG-document-repository/Technical_Documents/WLCGFutureISUseCases_1.6.pdf
 - More complete
 - Only grid resources are currently described in the IS
 - What about Cloud, HPC, new sites outside EGI/OSG or not running a BDII?

New WLCG IS?

- A new IS based on AGIS addresses the functionality presented in the previous slide
 - ATLAS is in favour of it
 - WLCG Operations and Monitoring would benefit a lot from such a tool as well
 - Aid to correlate data from various sources and services for Data Analytics
 - CMS interest still needs to be understood
 - LHCb and ALICE do not really need it but would use it if the information is more reliable than directly gathering it from GOCDDB, BDII, etc.
- What happens if we don't have a WLCG IS? Is this what we want?

New IS functionality

- Validate information before it gets published centrally
- Apply corrective actions without the need of getting the information fixed at the source.
- Log information (when, how, by whom) and keep history of the topology changes
- Include information like HPC and clouds
- Provide consistent interface for all WLCG clients

BDII and GLUE 2.1?

- WLCG doesn't need the BDII to get the information it needs
 - Most information available in GOCDB/OIM
 - Moreover...
 - OSG decided to stop using the BDII
 - But EGI still needs the BDII for non LHC VOs
 - What about new sites who do not run a BDII?
 - Could WLCG move out completely from the BDII?
 - Will this make the life of sites easier or not?
- WLCG has agreed to adopt GLUE 2
 - A roadmap is needed to start consuming GLUE 2 information
 - WLCG doesn't need the BDII but GLUE is needed for interoperability
 - Now GLUE 2.1 is under discussion to include also cloud resources
 - Does WLCG want to get involved in this and play an active role?

Cores and benchmarks

- The Information System TF is trying to get proper values of number of cores and benchmark values from sites
 - Working on a publishing tutorial
 - Trying to get this information from GOCDB/OIM
 - To have less dependencies on the BDII
 - Very important to align definitions and instructions for sites on what to publish with Accounting and Benchmarking activities in WLCG