Requirements for GLUE 2.0

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Overview

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Introduction

• This presentation is based on the discussions held at the Information System meeting with users
  – Monthly meeting
  – IS experts, experiments, EGI and OSG
  – First meeting last week:
    • https://indico.cern.ch/conferenceDisplay.py?confId=220247

• General twiki page tracking user requirements
  – https://twiki.cern.ch/twiki/bin/view/EGEE/ISUserReq
Glue 2.0 deployment status

GLUE 2.0 Deployment in WLCG

- GLUE 2.0: 50
- No GLUE 2.0: 108

WLCG sites not publishing GLUE 2.0

- EGI: 10
- OSG: 28
- Others: 12

10 EGI sites more are publishing GLUE 2 since November GDB
GLUE 2.0 validation short term

- On going work to implement EGI profile document for GLUE 2.0 in glue-validator
  - [http://go.egi.eu/glue2-profile](http://go.egi.eu/glue2-profile)
    - One test per attribute

- Short-term: Integrate glue-validator in SAM
  - Monitor GLUE 2.0 compliance
  - Plan:
    - Request EGI to include glue-validator as a SAM probe → DONE
    - After approval, include glue-validator probe in the SAM release → Ideally January release
    - Start to monitor glue-validator errors as soon as the SAM release is deployed in the different Nagios instances → Ideally end of January

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GLUE 2.0 validation long term

• Long-term: Integrate glue-validator in the resource BDII
  – Enforce more strict checking of GLUE 2.0 compliance before publication
    • glue-validator runs in the resource BDII
    • Resource BDII only publishes GLUE 2.0 compliant information and publishes nothing otherwise.
  – Plan:
    • Integration of glue-validator with resource BDII in January 2013.
    • Integration of the new version of the resource BDII in all the other MW services:
      – This could take several months
      – Deployment in EGI could many more months
GLUE 2.0 clients: ginfo

• New version of ginfo
  – Extended use cases, not only Service Discovery
  – Will implement most popular Information System queries
    • Feedback from experiments based on current use:
      – Current ldapsearch queries
      – Current lcg-info/lcg-infosites queries
  – Feedback being collected
    • Development plan will be defined soon
Static vs Dynamic vs Metadata in GLUE 2.0

• Use cases from experiments to be collected in the next Information System meeting with users
  – Which information is needed?
  – Static data can be provided by GOCDB?
  – Dynamic data can be provided with messaging?

• Feedback for ginfo will be very useful
  – Which GLUE 2.0 attributes are actually important
GLUE 2.0 in OSG

• No request from OSG stakeholders to implement GLUE 2.0

• GLUE 2.0 needs to be proven in EGI
  – It has to be widely deployed
  – Users have to trust GLUE 2.0 Information
  – Clients and information providers need to work

• Work is on going as presented in the previous slides!
Conclusions

• On going effort to:
  – Deploy GLUE 2.0
  – Validate GLUE 2.0 information
  – Provide client tools

• Use cases from experiments will show the way to evolve the current architecture of the IS

• Successful GLUE 2.0 in EGI is needed to involve OSG