Integrating Globus Services into BDII based Information System
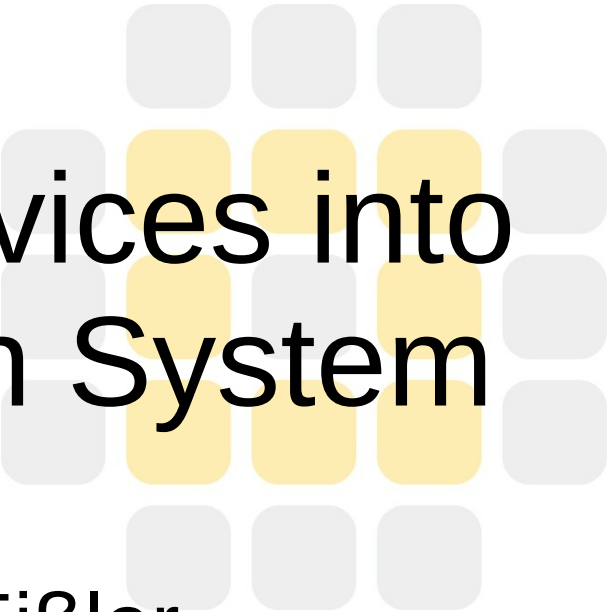
Ilya Saverchenko & Tilo Eißler
Leibniz Supercomputing Centre
20.09.2012

Motivation

- Globus IIS is the information system for Globus Toolkit services
  - Integration with BDII requires substantial effort
  - Limited adoption outside of the EGI infrastructure

- An existing system already employed is BDII
  - Based on OpenLDAP
  - GLUE schema support (1.3 and upcoming 2.0)
 - Widely used in production environments

- BDII based information system
- Yaim configuration tool
- Advanced BDII information provider prototype for GRAM5 by David Groep (in production at NIKHEF)

3

Goals
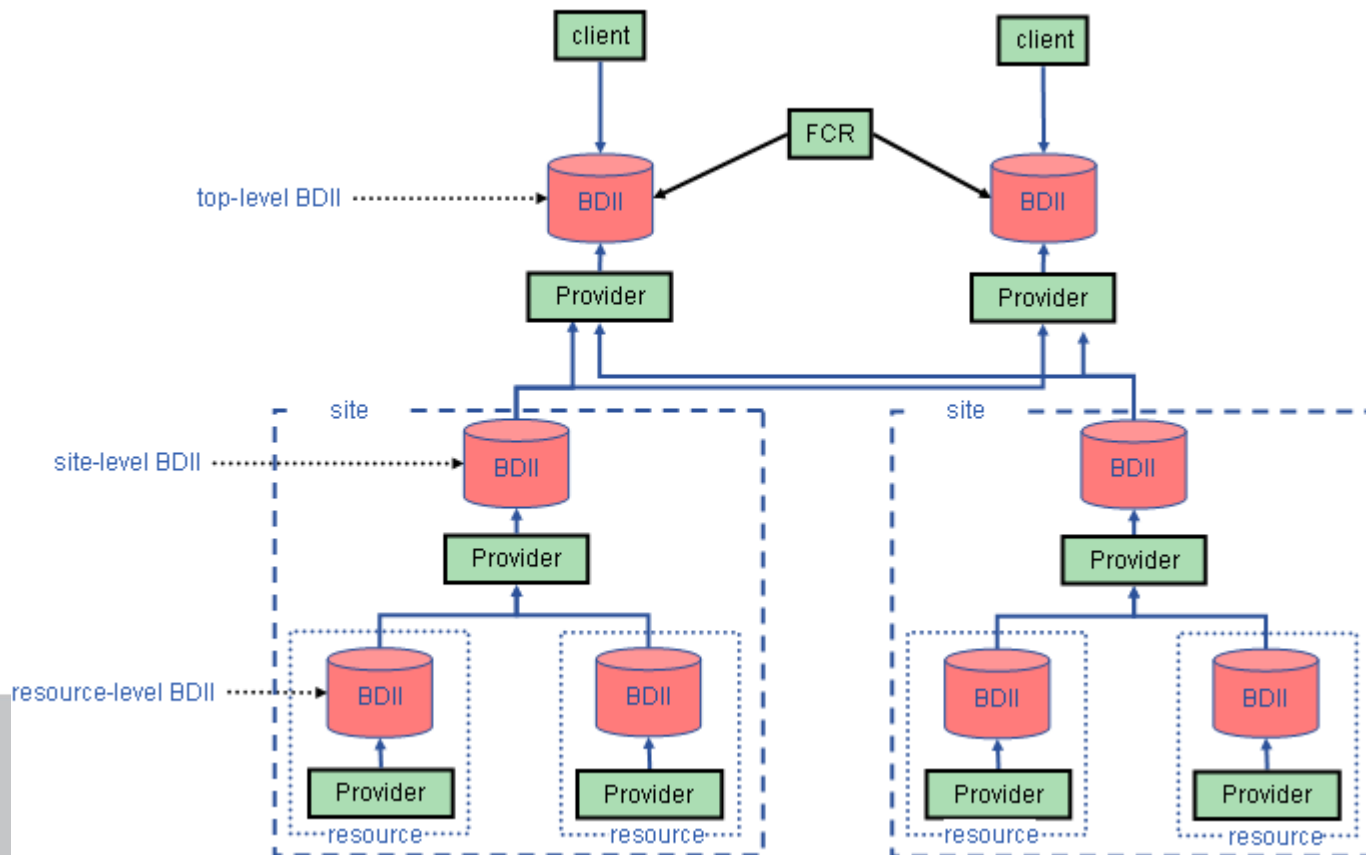
- Integrate central Globus services in EGI
  - ➜ GridFTP
  - ➜ GSI-SSH
  - ➜ GRAM5
- Publish static and dynamic service information
- Support for GLUE schema versions 1.3 and 2.0
- Provide RPM packages

- Based on BDII Generic Information Provider (GIP)
- Yaim configuration tool for setup
- Gather information & output GLUE1.3 or GLUE2.0
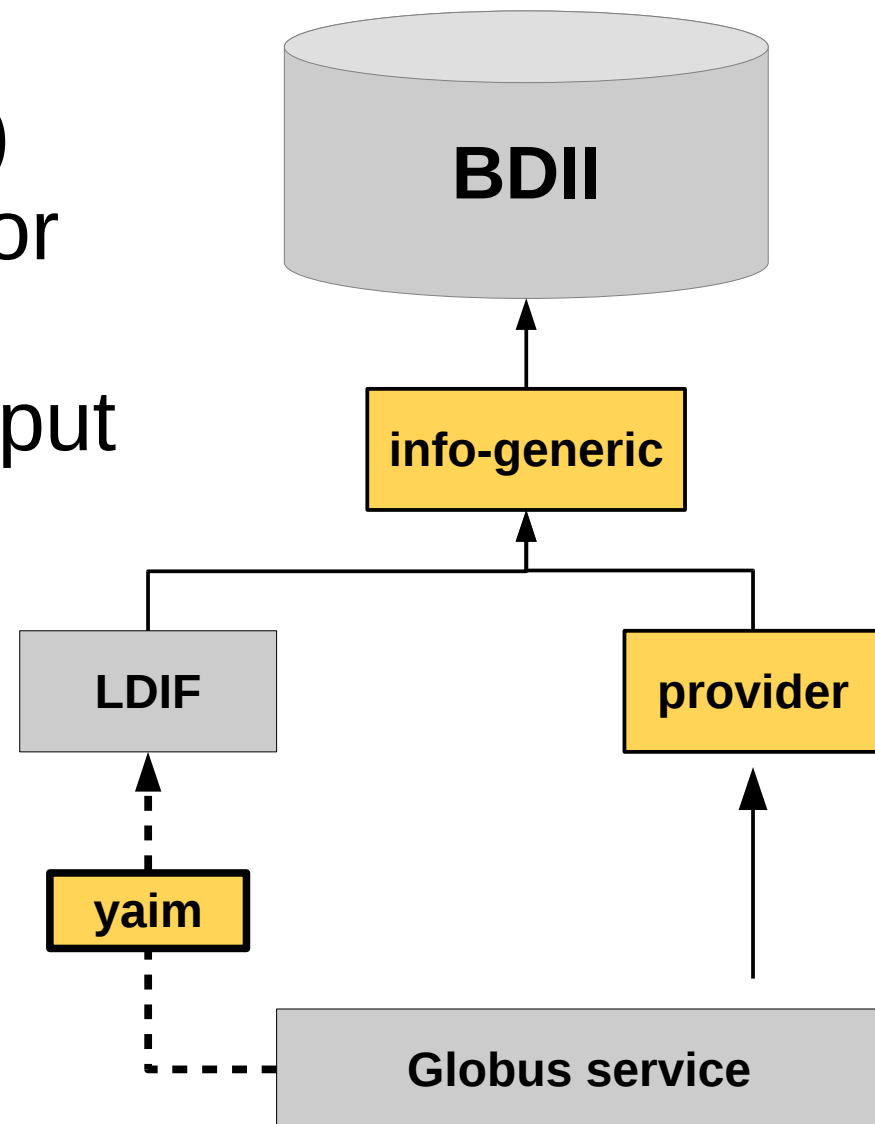
✔ Done: Analyze requirements and existing solutions

• Currently implementing
  ➜ Information provider for static information
  ➜ Yaim configuration functions

• Future work: Develop information provider for dynamic information