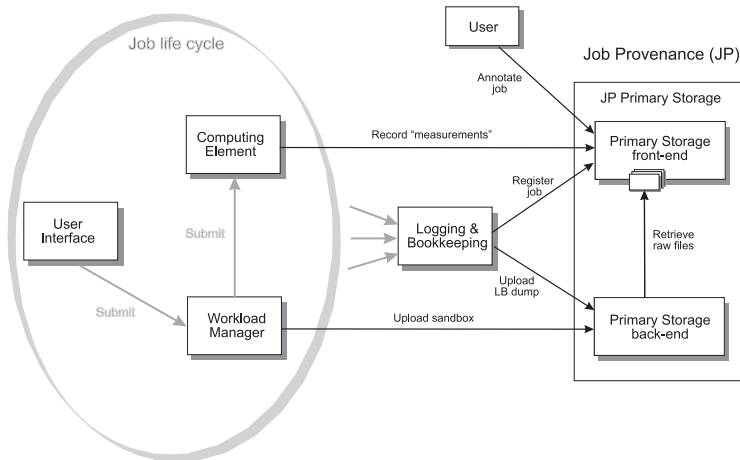
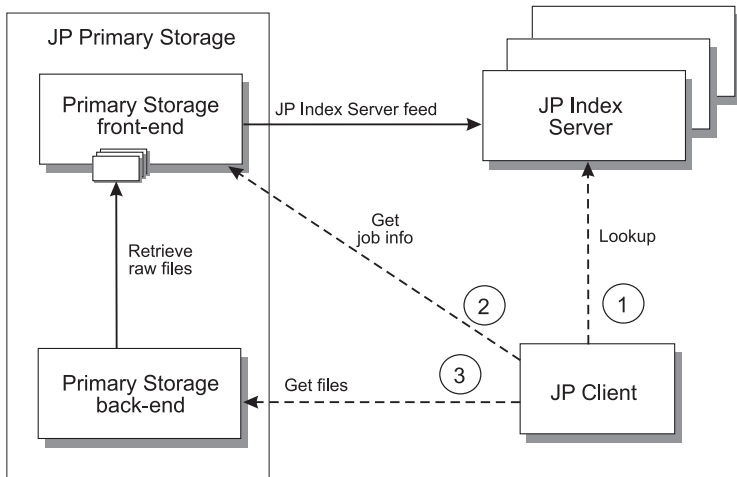


Job Provenance in gLite 3.1

Jiří Sitera – JRA1 CZ cluster, CESNET

- Long-term storage of job related data
 - LB data (JDL, job execution track)
 - Miscellaneous input files (input sandbox)
 - “measurements” on CE (installed software, environment)
 - Accounting data (DGAS)
 - User annotations
- Data mining in the stored information
 - Looking up 'provenance' of data
 - Assisted job resubmission





- Job Provenance as a new component in gLite 3.1
 - Deployed as two components
 - ▶ JP Primary Storage
 - ▶ JP Index Server
 - The LB deployment contains JP feeding elements
 - New end-user interface (web service, CLI available)
- Limitations in the first release
 - Integrated with LB only
 - Configuration of index servers limited
 - ▶ Index server logic already favours the configuration represented internally, currently hardcoded
 - ▶ The only missing part is the configuration management (configuration format (file) and its parser)

- Job Provenance: Long-term storage of job related data
 - Data-mining service for users
 - Users can annotate ended jobs
 - Access to all job related data (allowing for resubmission etc.)
- JP is a new gLite component, in 3.1 with limited features
- Future plans
 - Evaluation of the first release deployment
 - Other data sources (sandbox upload)
 - Client integration into UI
 - Configuration & other internal enhancement of JP