gLite/ARC interoperability

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Agenda

- gLite->Arc
  - Overview
  - Status

- Arc->gLite
  - ARC overview
  - Gateways/Direct (Condor integration)
  - CE Interface (CREAM)
  - Status

- LCG/Nordugrid
  - Status (Alice, Atlas)
gLite / ARC interoperability plan

- Official EGEE-II(SA3) and KnowARC(WP3) activities.

- Short term:
  - Deploying gLite and ARC in parallel on CEs.

- Medium term:
  - Creating gateways and adapters.

- Long term:
  - Work together on grid standards.

More Information:
- [http://indico.cern.ch/materialDisplay.py?contribId=348&sessionId=13&materialId=paper&confId=048](http://indico.cern.ch/materialDisplay.py?contribId=348&sessionId=13&materialId=paper&confId=048)
gLite -> Arc Status

- **Condor-g -> ARC**
  - Condor-G v.6.7.12+ can already submit to ARC

- **Information System**
  - preliminary system (arc-bdii.cern.ch) works
  - needs full scale testing

- **WMS condor**
  - Official gLite uses Condor-6.7.10 - we need >=6.7.12 !
  - Development gLite-WMS system condor 6.7.17 running
  - JobAdapter needs work
Arc -> gLite Gateways/Direct

Direct: Integrating ARC client and condor

- **Pros:**
  - Direct submission to gLite CEs

- **Cons:**
  - Bloat: NGClient ~ 10mb; Condor ~100mb
  - Interface changes. (gLite update -> ARC update)

Gateways:

- **Pros:**
  - Better scheduling

- **Cons:**
  - Scalability/price
Arc --> gLite CE interface

+ Gateways/Direct not feasible
+ Solution: Open interface for job management on gLite CEs
+ Good news: CREAM interface developed under EGEE
+ Bad news: Not supported by gLite CEs, and no milestone exists.
+ But, any open interface standard to CEs will do
Arc -> gLite Status

- Work is covered by KnowARC WP3.2
- Lack gLite CE interface
- Deliverable: KnowARC/EGEE-II interoperability by August 31 2007
  - comprises:
    - job submission
    - Info system
    - data storage
LCG/Nordugrid status

- Work on VO level covered by NDGF
- Alice
  - Arc-Alice VOBOX created
  - running Alice jobs on nordugrid (for 3 weeks)
- Atlas
  - Dulcinea can submit directly to Nordugrid
  - Minor problems with datamanagement (WIP NDGF)
Thank you

Questions?