



Enabling Grids for E-scienceE

# SA3: gLite – Unicore interoperability

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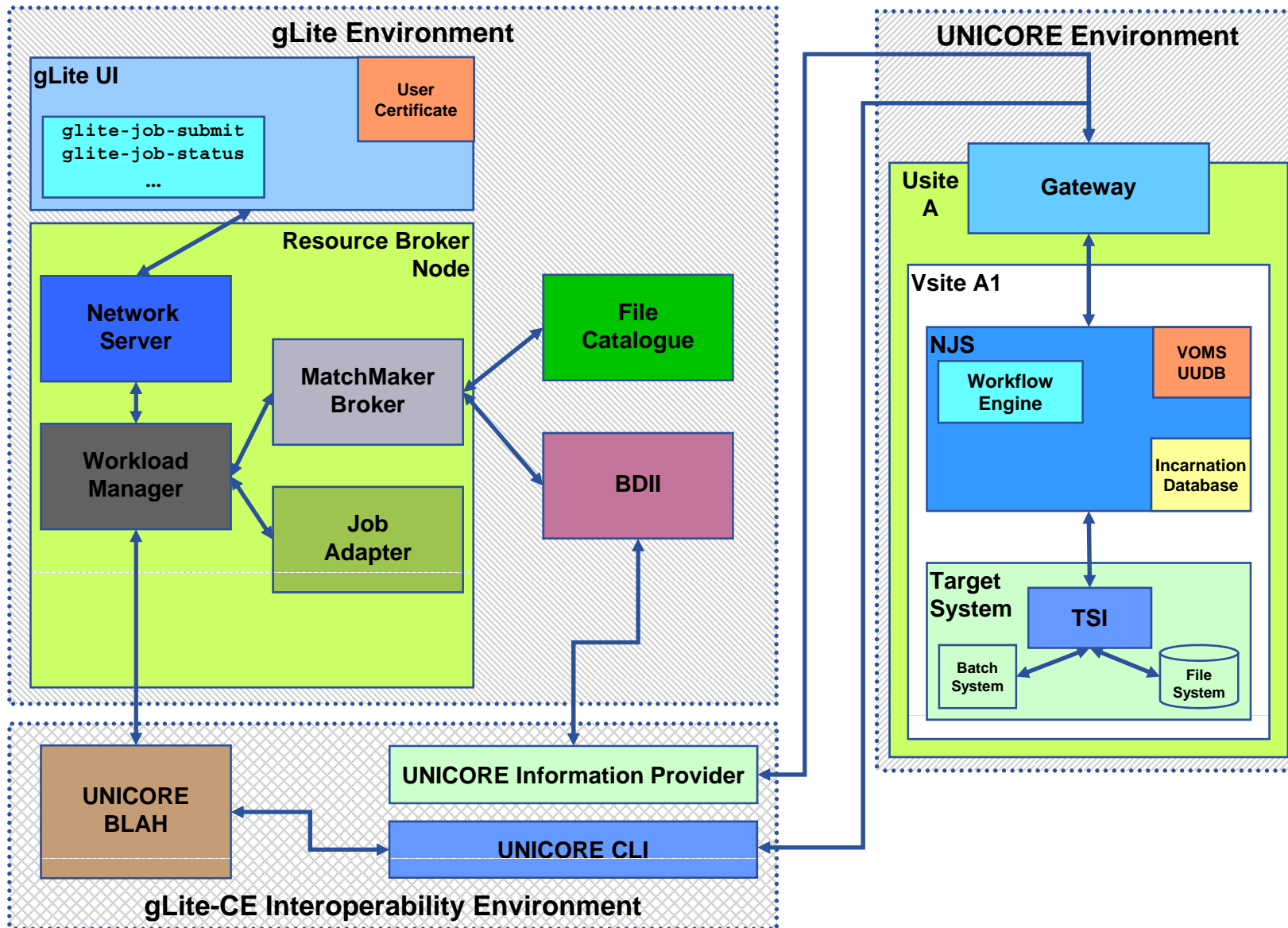


Information Society  
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- **Installation of testbed finished (UI, WMS, BDII, gLite-CE, WN)**
- **Examination of gLite CE BLAH finished**
- **Examination of gLite Condor CE finished**
- **Prototype implementation of UNICORE BLAH finished**
  - `unicore_submit.sh` and `uni_status.sh`
  - Submission of simple jobs to UNICORE works

- **Condor CE scenario**
  - gLite Condor CE is a Condor Submission Node
  - Submits to gLite Worker Node, acting as Condor Master
  - Condor Master on gLite WN submits to UNICORE using Condor-U
  - WN capability necessary on UNICORE target systems
- **UNICORE-BLAH scenario**
  - gLite CE with adapted BLAHPD submits to UNICORE using UNICORE CLI (command line interface)
  - WN capability necessary on UNICORE target systems
- **Pros of UNICORE-BLAH scenario**
  - One step less than Condor CE scenario
  - Simple to adapt to upcoming UNICORE 6



- **BLAH submit script**
  - Builds xml file in UNICORE CLI syntax
  - Calls UNICORE CLI to build and submit the job
- **BLAH status script**
  - Calls UNICORE CLI to retrieve status and get output if job is finished
- **UNICORE CLI allows for**
  - Building UNICORE jobs
  - Submitting UNICORE jobs
  - Retrieving status of UNICORE jobs
  - Retrieving output of UNICORE jobs
  - Canceling UNICORE jobs

- **Job submission**
  - Improve `unicore_submit.sh` BLAH script
    - resource requests, proxy\_renewal
  - Implement `uni_cancel.sh`
- **Authentication and Authorization**
  - Finish adaptation of CLI to support ETD
  - Use proxy certificate for AuthN and AuthZ in UNICORE
    - AuthN: UNICORE Gateway needs to be adapted
    - AuthZ: UNICORE User DataBase (UUDB) compares (part of) DN instead of whole certificate

- **Service discovery**
  - Implement service discovery agent
    - Agent discovers the UNICORE gateways from an xml file
    - Queries the UNICORE NJSs to obtain information
    - Feeds information about the available UNICORE resources into BDII
- **WN capabilities for UNICORE target systems**
  - SUSE Linux
  - AIX