

CREAM: workplan for EMI-3



Paolo Andreetto

INFN Padova

Hamburg, AHM May 2012

EMI is partially funded by the European Commission under Grant Agreement RI-261611

- Port types dealing with activities and delegation delivered with EMI-2
- ResourceInfo port type:
 - To be delivered with the first update of EMI-2
 - Both server side and client side (simple command line UI)
 - Information extracted from the resource BDII
 - Xpath support for the QueryResourceInfo

- SLURM support
 - BLAH scripts and info-provider developed by the BLAH team (work in progress)
 - APEL sensor up to APEL PT
 - Scheduled for EMI-3, hopefully delivered with an EMI-2 update
- Support for multiple/exclusive node allocation
- Forward resource constraint tags to the batch system

- Common authentication library
 - Java library on the server side
 - C/C++ library in the UI
 - Scheduled for EMI-3, to be integrated by the end of July.
- Common XACML profile
 - Minimal impact on the server side
 - Ready by the end of July

Other integrations



- CAR
 - Completely developed by APEL PT
- EMIR
 - ERIS: wrapping the resource BDII; no changes planned in CREAM
 - Registration of the CREAM CE via YAIM configuration
- L&B
 - Feedback to L&B team; not mandatory for CREAM (low level priority); hopefully delivered with EMI-3.

- Redundancy
 - Multiple CREAM instances per site; status stored in the back-end; core logic is ready
 - Multiple BLAH parsers per site; status shared using broadcast; core logic under development
 - Redundant MySQL back-end; no constraints about the configuration
 - Load balancer; no constraints on the structure (hardware/software)

- SL + EPEL
 - Version 5 and 6 completely supported
 - Minor issues with EPEL policy compliance
- Debian
 - Packages available but not tested
 - Not delivered with EMI-2
 - Major issues with Debian policy compliance

- New IGI software stack:
 - Maven, cmake (under discussion)
 - Github
 - Jira

<https://wiki.italiangrid.it/CREAM>