

OGSA-WG interim meeting #14 — April 5th 2006 — Day 2 afternoon

(note-taker: Fred Maciel)

Participants

Hiro Kishimoto (Fujitsu)
Andreas Savva (Fujitsu)
Fred Maciel (Hitachi)
Michel Drescher (Fujitsu)
Allen Luniewski (IBM)
Steven Newhouse (OMII)
Duane Merrill (UVa)
Mark Morgan (UVa)
Jay Unger (IBM)
Jem Treadwell (HP)
Marvin Theimer (MS)
Chris Smith (Platform)
Ravi Subramaniam (Intel)
Steve McGough (Imperial)

Bridge

Dave Snelling (Fujitsu)

1 EMS discussion

1.1 ESI proposal by Globus and UNICORE

- David explains background. Interoperability between Globus and UNICORE demanded from several parties, achieved interoperation so far. First stab at re-conciliation to achieve interoperability.
- Chris: how much in this document can be reconciled with BES? What are the differences? Hiro: this is not the next version for BES, looks like an interface for a job manager. David: explains the main differences.
 - CreateManagedJob, similar to BES create activity with optional subscription. Reflects Globus semantics of atomic combined operation. Subscriptions are guaranteed to be raised but delivery is subject to the transport mechanism. BES model is slightly different: submit and hold. Marvin: Notifications are common but not universal; as such they are not included in the base HPC case. They are a common optimization. They should be optional in the sense that the client can query if service supports this or not (client choice); should not be in core requirement.

- Return operation. Ravi: there is a requirement for the order in which jobs (e.g. state change) are handled, may want to kill jobs in a certain order. Marvin: need to know the requirement on the number of jobs. **ACTION ITEM:** Ravi to send e-mail with more details to BES-WG ML
- JSDL extensions.
 - ♦ Chris: identifier to idempotent is “relatively unique”, controls protocol to submit the job, not sure if it’s a JSDL extension or not. Steve: need wrapper around job (job language). And JSDL is in there and this extension is at the same level as JSDL.
 - ♦ Marvin: idempotent gives impression that operation can be executed multiple times, meaning in spec seems to be opposite. David agrees.
 - ♦ Marvin: what are the semantics assumed on persistence and atomicity (e.g. crashes one millisecond after starting; restart?). David will forward the question.
 - ♦ Marvin: assumptions for libraries? David: UNICORE-related, open-ended; capability in one side, software in nature. Can trigger provisioning. Steve: steps on the toes of CDDLM? Agreement that it brings high-level issues. Chris suggested that a broader resource description language is needed rather than piecemeal addition of names as resources.
- Resource properties on the factory (4.1).
 - ♦ Marvin: what if this factory is fronting a cluster? Network bandwidth might change per host. David: cannot represent this with current version.
 - ♦ Explanation of previous day’s discussion on information modeling.
- Job interface manages the job, not through the container. Discussion.
- State model. Closer to what is happening in the real-world than BES. Full state model have 42 states (in BES if we expand the suspended states the number would be similar). Marvin: seems to have 4 states with lots of sub-states under “running”.
- David: in the bottom of the paper there is a list of open issues.
 - Additional issue from Ravi: suspend semantics.

1.2 Architecture Scenarios

- Review of the “Interaction between CDDLM & JSDL” document. Changes registered on the document – see document for details.
- Andreas: why make this distinction between provisioning and deployment? Steven: provisioning is broader, e.g. for more than one target; deployment is narrower. It’s the same function. Ravi: provisioning = deployment + configuration step. Andreas: slightly different from glossary, but close. Discussion.

- Discussion on what does the deployment itself (CDL server? Agent?). Will ask CDDL-M-WG in discussion tomorrow.

2 Webcast discussion

- Jem presents rough outline of the slides.
- Abstract is on the site, but still not announced.
- Dry Run on April 17. Have to confirm with Andrew.
- Ask Steve Crumb to send advertisement to GGF list.
- Discussion on whether polls are possible. Discussions, some suggestions; perhaps do separately, or during Q&A.
- Participants: put bios in Web site in advance to save time.
- Is the presentation going to be done to analysts? Apparently yes. Prepare for “why is it taking so long” question.
- GGF & Grid today: single chart with timeline.
- Jay: tell them what it is, and perhaps tell them how we do it at the end.