Profile 1 – Scientific computing

Breakout session 1

Three breakout groups

- **Group 1**
  - Cluster 1 – Scientific computing
  - Chair: Peter Deussen, Fraunhofer FOKUS

- **Group 2**
  - Cluster 2 – Public trusted clouds for governments
  - Chair: Damir Savanovic, Cloud Security Alliance

- **Group 3**
  - Cluster 3 – High performance dedicated purpose applications
  - Chair: Neil Caithness, University of Oxford

Breakout objectives

◆ Verify & confirm clustering and mapping

◆ Confirm the need for standards and profiles

   ◆ Do requirements overlap or complement?

◆ Which standards are missing in the strawman profiles? Which are superfluous/obsolete?

◆ Is the strawman profile worth pursuing?

◆ Which SDO would be available and willing to support/host the profiling process and aork?

◆ Jens Jensen (OGF)

◆ John Morrison (UCC, CloudLightning)

◆ Wim Schreurs (UCC, CloudLightning)

◆ Peter Deussen (CW)

Verify & confirm clustering and mapping

- Homogeniety +
  - on the level of „racks", heterogeniety thoughout cells
  - Self-organisation
  - Unified management approach
- Simplified (unified) self-management +
  - Service catalogue
  - Implementation types
  - Service creation by user
- Massive scale +
  - Main requirement

- Measured services
  - Different role: Reporting health of the cloud instead of resource allocation decisions
- Resilient computing
  - Self-healing can be approached through health monitoring (no major focus)
- Geographic distribution
  - None
- Service orientation
  - None
- Adv. Security
  - Not considered

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Other questions

- ◆ Confirm the need for standards and profiles
  - ◆ WS-Agreement, standards for resource and service management
- ◆ Which standards are missing in the strawman profiles? Which are superfluous/obsolete?
  - ◆ OCCI/CIMI & CDMI – CL will evaluate
- ◆ Is the strawman profile worth pursuing?
  - ◆ Good way for EC funded project to fulfull their standardization obligations
  - ◆ Good way to communicate to SDOs/users
- ◆ Which SDO would be available and willing to support/host the profiling process and aork?
  - ◆ OGF: Yes, could adopt a standards profile from a EC project, OGF already has some profiles under development

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