

# Grid Resource Allocation Agreement Protocol

GRAAP-WG working session 1  
Wednesday, 27 May, 2009  
Chapel Hill, North Carolina

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# GRAAP Sessions at OGF26



May 27

- Session 1 9:00 – 10:30 Experience Document (this session)
- Session 2 11:00 – 12:30 Experience Document/Negotiation

Both sessions in Bellflower

# Agenda

- Status of the Working group
  - Progress since last OGF
    - f2f meetings
    - Paperwork
      - Work on experience document continued
      - Advance reservation profile
    - Implementation
      - Finished Implementation of multi-round negotiation based on WS-Agreement 1.0
- Working on the Experience Document
  - State
  - Finishing missing parts

# Exp. Document Structure (1/3)



1. Introduction
2. Notational Conventions
3. WS-Agreement: Status Quo
  - 3.1 Rationale for Writing this Document
4. Projects Implementing WS-Agreement
  - 4.1 AgentScape
  - 4.2 Akogrimo
  - 4.3 ASKALON
  - 4.4 AssessGrid
  - 4.5 BEinGRID
  - 4.6 BREIN
  - 4.7 CATNETS
  - 4.8
  - 4.9 SmartLM
  - 4.10 VIOLA/Phosphorus/IANOS
  - 4.11

# Exp. Document Structure (2/3)



## 5. Constructs used in WS-Agreement – An Analysis

### 5.1 Top level Agreement-element

### 5.2 Context-element

### 5.3 Terms

### 5.4 Templates

### 5.5 Agreement States

### 5.6 Service Run-time States

### 5.7 Guarantee States

### 5.8 Port Types

# Exp. Document Structure (3/3)



6. Interoperation Testing based on the AssessGrid and the VIOLA Implementations
7. Comments from Projects
8. Conclusions
9. Contributors
10. Glossary
11. Intellectual Property Statement
12. Disclaimer
13. Full Copyright Notice
14. References
15. Appendix A – Example SLA Templates & Agreements
16. Appendix B – Complete list of WS-Agreement Constructs Analysis

# Exp. Doc: Open issues (1/2)



## 3. WS-Agreement: Status Quo

### 3.1 Rationale for Writing this Document

-> Wolfgang & Oliver to complete this section

## 4. Projects Implementing WS-Agreement

-> need input from Akogrimo (NN)

-> need input from BREIN (NN)

-> need input from BEinGRID BEs (NN)

-> JSS may be completed from CoreGRID TR (Wolfgang)

-> SmartLM to be completed (Oliver & Wolfgang)



# Exp. Doc: Open issues (2/2)



6. Generic WS-Agreement Frameworks  
Description of functionalities, e.g. user authentication, template storage, persistency mechanisms, verification using constraints, monitoring mechanisms, ...  
WSAG4J -> Oliver  
BREIN framework -> NN  
NegMgr -> NN
7. Interoperation Testing based on the AssessGrid and the VIOLA Implementations  
-> Dominic & Oliver
8. Comments from Projects  
taken from survey -> NN

# Exp. Doc: Interoperability



Suggestion (Request?) from GFSG

- Identify and implement additional measures to provide interoperable WS-Agreement implementations
- Could be achieved through
  - Profiling WS-Agreement
  - Using predefined templates for dedicated use-cases
- Proposal should become part of the experience document