

A decorative graphic in the top left corner consisting of a grid of white dots of varying sizes, arranged in a pattern that tapers to the right.

GlobalGridForum

Leading the pervasive adoption of grid computing
for research and industry

Grid Resource Allocation Agreement Protocol

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GRAAP-WG

15. February, 2006 (GGF16 in Athens)



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GRAAP Sessions at GGF16

#1 February 15, 8:30 am

Wrap up since GGF 15

WS-Agreement status - Comments received and addressed during
2nd public comment period (Toshiyuku Nakata, NEC)

Next steps

Planning implementations

#2 February 15, 10:30 am

Use of WS-Agreement in the CATNETS project (Michael Reinicke,
University of Bayreuth)

Negotiation and reservation of resource co-allocation in the
VIOLA testbed (Wolfgang Ziegler, FhG SCAI)

Requirements for a protocol supporting co-allocation and reservation

#3 February 15, 1:30 pm (**this session**)

Additional term languages & other requirements for WS-A 1.x

Requirements for a protocol supporting co-allocation and reservation

Session Agenda

- Sign-in sheets
- Agenda of GRAAP Session #3
 - Additional term languages & other requirements for WS-A 1.x
 - Requirements for a protocol supporting co-allocation and reservation

Requirements for WS-A 1.x

- More domain specific term languages needed
 - Networking
 - Security
 - Services
 - ...
- Thinking about modular approach decoupling
 - Protocol
 - Guarantee terms
 - Domain specific term language(s)into separate specs

Additional term languages (1)

- WS-A spec includes examples using JSDL as term language for description of job resources
- Supports a common use case for WS-A: Agreement on usage and reservation of compute resources
- However, other use cases for of WS-A appear, e.g.
 - reservation of both compute & networking resources
 - agreements between network providers
 - agreement on security issues between service provider and service consumer
 - and many more

Additional term languages (2)

- Network domain
 - Terms describing network requirements from an application's point of view could become an extension of JSDL (endpoints, bandwidth, delay, jitter, etc)
 - Term language for network operators must be able to express additional properties like protocols, policies, etc to create agreements on connections spanning across multiple networks

Still to be done

Requirements for a protocol supporting co-allocation and reservation



Planned at GGF15 to be completed at GGF16, but...

- Collect common/diverging requirements from presentations at GGF15 & use-case document
- Create an Informational document on requirements on protocols (before GGF17)
- Start Investigation on combination of 2-phase commit, Paxos, and Cancellation
- Start work on definition of Terms for AR
 - Initial group set-up in GRAAP session#2 GGF15
- Start work on Negotiation
 - Initial group set-up in GRAAP session#2 GGF15
- Presentation of results/state at GGF17

Next Sessions

Don't miss

GGF17, Tokyo

May 10-12 May, 2006