

Universal Worker Service Update

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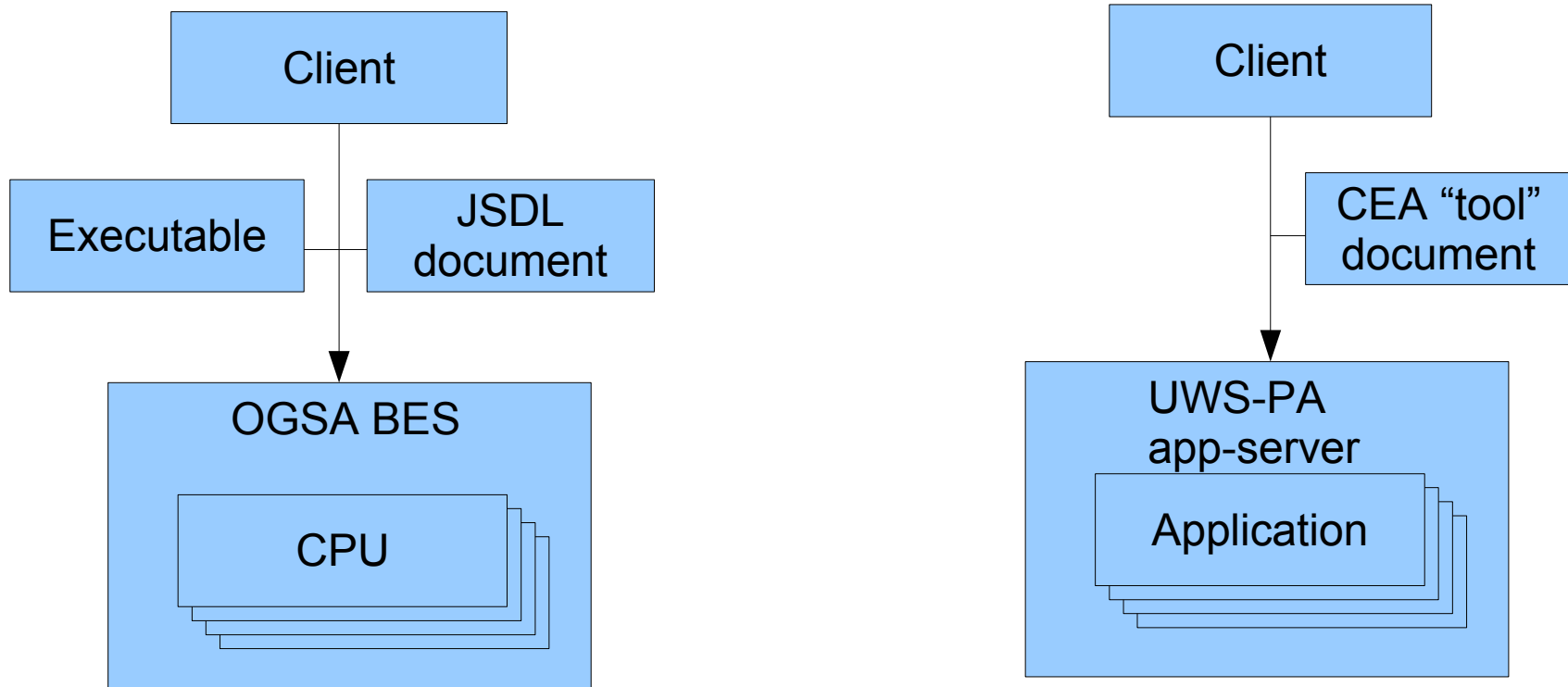
Presentation to Astro-RG
OGF19, January 2007

Context: IVOA UWS & UWS-PA

- IVOA standards:
 - UWS = Universal Worker Service
 - UWS-PA = UWS for Parameterized Applications
 - <http://www.ivoa.net/twiki/bin/view/IVOA/IvoaGridAndWebServices#Asynchronous>
- UWS is a pattern for job-manager services
- UWS-PA is a service contract
 - A particular kind of job-manager
 - “Job” = one call to one application
 - Job's parameters work like Unix CL
 - Like the existing Common Execution Architecture

Why UWS-PA (1)

Why UWS(-PA) rather than, say, OGSA basic-execution service?



Difference is in the job-description language. Recent experience (EuroVO) **affirms** that the abstract CEA language is a good fit to the astronomy problem.

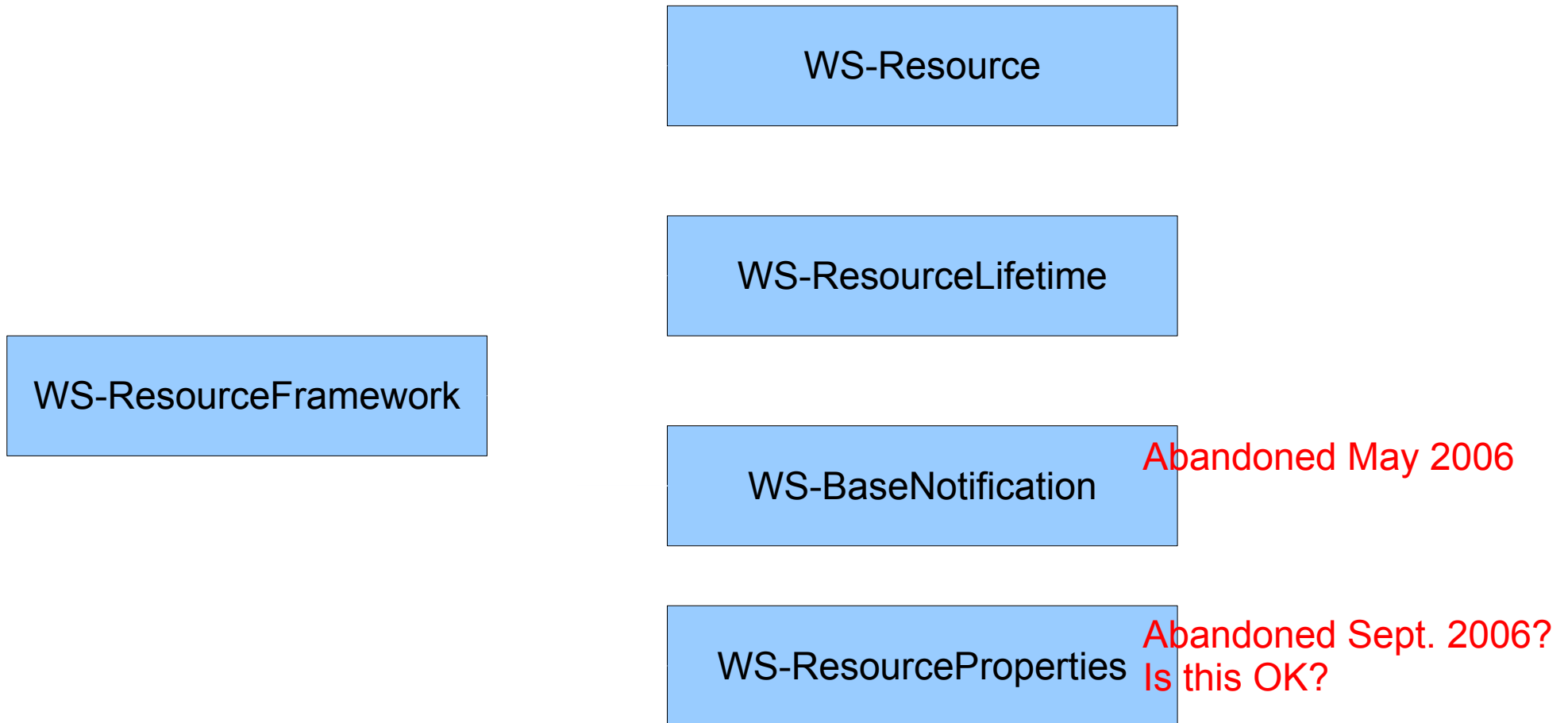
Why UWS-PA (2)

- Why new UWS-PA? Why not keep CEA v1?
 - Resource lifetime management
 - One-time chance to tweak job language

Progress

- UWS-PA prototype shown at IVOA Moscow
 - Two applications:
 - Trivial echo of inputs
 - Asynchronous ADQL query (like Astrogrid DSA)
 - Built with parts from AstroGrid CEA
 - Reduced use of WS-RF

The WS-RF connection



SOAP or REST?

Change this...

Job
JDL specification: Tool doc time to live: duration results: whatever etc.
init execute abort etc.

...to this?

