

Grid and Web Services

Plenary II

IVOA Cape Town

Brian Major and Giuliano Taffoni

May 2016



GWS Session II -- Cluster Computing

André Schaaff (and Noémi Wali, F.X. Pineau)

Cross Matching using Spark and Hadoop FS. This is code to data!

Without optimizations, results were roughly equivalent to current production version.

Looking forward to hearing updates in Trieste.

GWS Session II -- UWS

UWS Clients and Servers

Mathieu Servillat - UWS on Slurm Workload Manager for CTA

Kristin Riebe - Client side UWS libraries and command line tools

UWS

UWS 1.1 has (finally) been sent to the executive committee for review.

Future UWS features:

- Starting asynchronous jobs immediately with PHASE=RUN? (TAP - Walter)
- Job description addition? (Provenance - Mathieu)
- Job inputs addition? (Provenance - Mathieu)

GWS Session II -- SAMP

Mark Taylor - SAMP over HTTPS

A decision needs to be made:

- Go with proposed proxy relay solution?
- Think about redesigning SAMP?

GWS Session II -- VOSpace 2.1

VOSpace 2.1

- discussed ability to share download URLs
- revisit view=data parameter deprecation?

Request for Comments period will be started soon.

Please review the document if you have an interest.

GWS/Apps Authentication & Authorization

Very engaging and informative session on A&A

- Giuliano Taffoni on integrating fine-grained authorization in a coarse-grained infrastructure allocation.
- Pat Dowler on integrating Anonymous and Authenticated in VO Services
- Mathieu Servillat - Shibboleth, Unity, and Grouper for CTA A&A

We saw the use of Groups for authorization.

Examples of how Credential Delegation Protocol can simplify your services.

GWS/Apps

Authentication & Authorization

SSO 2.0 -- approximately correct as it stands

- We will add a few more authentication types (securityMethods)
- An IVOA note showing authentication examples

No need to standardize authorization -- it is a local decision

Apps -- once the need arises, credential gathering and authentication should be built in.

Focus Session Feedback

- Code to data
- We should be exploring the use of the latest technologies
- Reexamine workflows in GWS
- We should be writing more implementation notes
- We encourage project members to contribute to the GWS Working Group.

Focus Session: Code to data

Code to data

Should it be standardized? Not sure.

Knowledge Discovery Interest Group will determine the use cases for the “code to data” issue. After that possible solutions will be explored.

Roadmap to Trieste

- Hope to see UWS 1.1 become a Recommendation (REC)
- VOSpace 2.1 6 week RFC (IVOA & TCG)
- VOSI 1.1 to become a Proposed Recommendation (PR) and perhaps REC
- SSO 2.0 to become a Proposed Recommendation (PR) and perhaps REC

- Implementation Notes
- Real Interoperable Implementations

Grid and Web Services

We have a lot of work to do!

Please join the **grid@ivoa.net** mailing list here:

<http://ivoa.net/members/>

And contribute! Thank you, and hope to see you in Trieste.