

Project: NeCTAR – Virtual Hazard Impact and Risk Laboratory (VHIRL)
Steering Committee Meeting: 004, 17/11/14
Time: 1:00pm (ESDT)
Duration: 60mins

Attendees:

Nigel Ward – NeCTAR (NW)
Tom Baldock – UQ (TB)
Ryan Fraser- CSIRO (RF)
Lesley Wyborn, Ben Evans (NCI)
David Lescinsky, Martine Woolf, Jane Sexton (GA)
Andrew Treloar (ANDS)

Apologies – Phil Cummins (GA), Stewart Allen (BoM)

Updates on Action items from August SC Meeting

ACTION - Lesley to circulate RDSI data plan and dataset listings – In Progress
ACTION – Conversion from GA’s proprietary grids to open format - DL to provide an estimate on when this can occur – In Progress
ACTION – NOAA to implement support as suggested for ERRDAP – DONE (has been delivered)
ACTION - RF to release VHIRL v1 on 2nd Sept 2014 – DONE (was released)
ACTION – RF to follow up with Steve Roberts from ANU – DONE
ACTION – RF to extend an invite to Andrew Treloar to join the SC – DONE (Andrew is attending SC meetings from here on in)

Agenda

1. Welcome (LW)

- Introduced Andrew Treloar from ANDS. The ANDS “Connecting RDSI, NeCTAR and ANDS via Provenance” project (referred to as the “Prov Project” here on in) will be managed by this Steering Committee due to the close relationship of the NeCTAR VHIRL and Prov projects

2. Overview of Progress and Current Status -RF

VHIRL

Project plan with milestones

<https://www.seegrid.csiro.au/wiki/VirtualLabs/Vhirl/VHIRLPlanPhase1>

- working on Milestones 7&8 which is the development of the **Scientific Solution Centre** or SSC (formerly Scientific Code Marketplace) and Release of v2 of VHIRL
- the SSC has been deployed onto NSP resources and accessible to the public
- This is the 1st pass on the development of the SSC. The SSC will enable the sharing of code developed by researchers/scientists etc more easily and is analogous to publishing a paper - you can now publish the executable method you talk about within your paper
 - Think of the SSC as the "app-store" or "Google-Play" for the science code but all interoperable across multiple platforms
 - it will enable a researcher who develops a solution for example a new inundation model - to register it and allow others to use it within multiple environments (VLs, scripting, potentially other applications)
 - at present, ANY NeCTAR VL could use VHIRL/VGL "solutions" within their own VL
 - “we register papers, we register datasets, now let’s register executable methods.....”
- 1st pass of the SSC has been developed into VHIRL v2

ANDS Prov project

Project plan with milestones

<https://www.seegrid.csiro.au/wiki/ProvServices/AndsProvServiceFy15>

- service has been deployed on to Nectar resources
- service has been extended to support the VHIRL use cases
- currently being integrated into VHIRL

3. Review of Milestone 7 & 8 (inc. Testing results) – Release of VHIRL v2

- a design and implementation for the SSC has been developed and demonstrated within VHIRL v2
- v2 has been tested and passed most tests, some outstanding issues

ACTION 4.1 – RF to circulate test results once satisfactory to users and project manager . SC to consider and “vote” on acceptable

ACTION 4.2 – RF to circulate SSC presentation for consideration by the SC

4. Pending Issues

VHIRL

a) Workpackage 3 scope

Items that were planned for VHIRL’s last work package are not available to the project (various reasons), so some consideration to alternatives have been made, these include:

- Inclusion of a 3rd workflow - we are investigating the inclusion of a fire or another flooding model
- Additional visualisation capability to allow for check pointing in batch processing (enable for the Tsunami workflow firstly)
- New user interface process to accommodate the Scientific Solution Centre and further engineering of the SSC to allow potential others to use

OUTCOME – Steering Committee accepted changing workpackage to include the above milestones

ACTION 4.3 – RF to submit a NeCTAR Project Change request in regard to Workpackage 3

b) reliability of cloud resources - we are working with NeCTAR to address NW – confirmed issues. RF has discussed at length and there is various approaches being considered to improve reliability of acquiring cloud resources that are being tested

c) parallel processing capability (NCI, eRSA?)

BE – noted need to link with LDAP to make this possible at NCI

RF – noted not enough capacity within project to implement

Some confusion in regard to whom can implement

ACTION 4.4 – RF and BE to discuss and identify how/if/who can implement necessary LDAP hooks in VHIRL to possibly allow parallel processing on Raijin

Provenance

- no issues

- need to start discussions with ANDS on how to represent Provenance information within RDA
(discussion kicked off last week)

5. Plan for next release v3 (remainder of former Project out till 30 Dec 2014)

VHIRL – continued testing and release of v2. Work package 3 and release v3
Provenance Project - finalise integration of the provenance service within VHIRL (minor release v2.1)

6. Promotional Opportunities

Confs ->

- Provenance session and papers @ ModSIM
- SIGMOD presentation on provenance
- ANZEMC – VHIRL
- AGU - David L will be presenting VL frameworks (VHIRL will be mentioned)

7. Next Steps & final questions/comments

- release v2

ACTION 4.5 - Andrew to circulate document on ANDS' plan for Provenance integration

8. Close

Thank you all for your time

Next meeting scheduled for – 10th December 2014 (VHIRL release 3)