

Grid Infrastructure Support In Canada

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Current Organization (I)

- Six WLCG sites in Canada: TRIUMF Tier-1 plus five Tier-2 centres (in two federations):

TRIUMF-LCG2 (CA_TRIUMF)

VICTORIA-LCG2 (CA_TIER2_WEST)

SFU-LCG2 (CA_TIER2_WEST)

ALBERTA-LCG2 (CA_TIER2_WEST)

TORONTO-LCG2 (CA_TIER2_EAST)

MCGILL-LCG2 (CA_TIER2_EAST) (*in the future, currently not in production*)

- All Canadian sites are under the CERN ROC since day one (initially very limited manpower & funding resources).
- All Canadian sites serving only the ATLAS VO.

Current Organization (II)

- We have setup a Canadian support group where TRIUMF plays a central role in providing help and support to the Tier-2 sites to resolve Grid services and data management issues. Support level essentially on an hourly/daily basis.
- Weekly Grid operations meetings and mailing lists to discuss site issues. Various Twiki's. Workshops and face to face meetings. Establishing a ROC at TRIUMF would be a way of formalizing it from WLCG perspective.
- Certificate Authority (CA): provided by CANARIE since a few years. Some serious issues in the past. The CA has now moved to NRC. TRIUMF part of technical group.
- Networking infrastructure: lightpaths provided by CANARIE with an MoU with HEPNET-Canada and TRIUMF. Participating in LHC OPN operations and monitoring. Perfsonar gears being deployed at TRIUMF.
- Providing monitoring tools for ATLAS operations / production.
- Providing CondorG / pilot factory services for several clouds: CA, DE, NL, TW for ATLAS PANDA production.

Moving forward (3-6 months plan)

- Learn about ROC operations and functions (from CERN and others)
- Coordination & discussions with CERN (during summer of 2009)
- Establish procedures, shift schedule rotation, SLA & SLD documents
- Deployment and start of operations of TRIUMF ROC (in fall of 2009)
- We are willing to accept all sites currently under the CERN ROC. We think it's a manageable number without need for more personnel
- For a smooth transition: run a parallel ROC with CERN with half of the sites
- Assuming current tools to be maintained by our collaborators (GGUS, APEL, SAM ?, Gridmap, Gridview, dashboards), overall grid operations in Canada would not be affected.