



dCache support schema(ta) for Tier II's

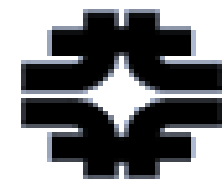


presented by Gerd Behrmann

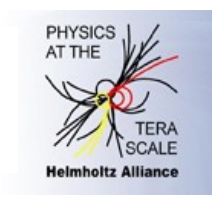
with contributions by

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- Giacinto Donvito
- Patrick Fuhrmann
- Jens Jensen
- Chistopher Jung
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- Germany
- NorduGrid
- GridPP
- Open Science Grid
- INFN



additional funding, support or contributions by



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Roadmap



Germany

NorduGrid

Open Science Grid

Italy

UK

Others

Summary



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Support in Germany



provided by Christopher Jung



- ♦ There are about 15 dCache instances in Germany (WLCG, D-GRID, Astro, ILDG, HERA, ILC) which are supported by the *German Storage Support Group*.
- ♦ The group is funded by the German “**Helmholtz Alliance**” project : *Physics at the Terascale* and the *D-Grid Integration* Project.
- ♦ Funding covers 3 1/2 FTE (5 people) located at the German Tier I, in Munich, Aachen and at DESY (dCache.org).
- ♦ The head of the group (Christopher) is located at the German Tier I (GridKa, KIT).
- ♦ One member of the support group is a member of CMS, one of ATLAS and one of D-Grid.
- ♦ The dCache product RPM is taken directly from dCache.org.



Support in Germany



provided by Christopher Jung



Support covers :

- ◆ First level support (triggered by GGUS tickets).
- ◆ Incidence Management (German sites only)
- ◆ Teaching (dCache workshops), e.g. :
 - ◆ GridKa School (for Beginners)
 - ◆ March 2009, Cologne (Installation)
 - ◆ April 2009, Aachen (Chimera, ACL's)
- ◆ Providing integration tools.
- ◆ Two weekly phone conferences with German dCache sites.
- ◆ Contact to dCache.org. (Access to dCache.org ticket system etc)



Support for NorduGrid

provided by Gerd Behrmann

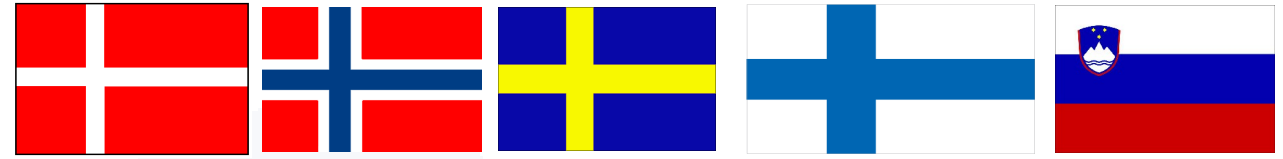


- ◆ *Nordic Data Grid Facility (NDGF)* provides the dCache support for the Nordic Tier I and the associated Tier II's.
- ◆ 3 dCache Tier II instances (IJS, SNIC, CSC).
- ◆ NDGF contributes to dCache with 2 FTE.
- ◆ This covers
 - ◆ development and deployment
 - ◆ first and second level support
- ◆ Liaison with the ARC middle-ware.



Support for NorduGrid

provided by Gerd Behrmann



- ◆ First level support maintained by NDGF operations team in cooperation with NE-ROC through NDGF support list (support@ndgf.org) and GGUS.
- ◆ Distributed operations team located “on-site”.
- ◆ Not limited to HEP as BioGrid VO uses the same infrastructure.
- ◆ Tier 2 sites often decide to use custom build used at NDGF.

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Open Science Grid Storage for VDT

provided by Tanya Levshina



- ◆ Package dCache for VDT
 - ◆ Collect dCache, postgres, pnfs, srmwatch rpms from dCache.org
 - ◆ Add community toolkit rpms (<http://datagrid.ucsd.edu/toolkit>).
 - ◆ Add Gratia accounting probes.
 - ◆ Provide installation script to simplify dCache configuration/installation for OSG
- ◆ Help VO's to use opportunistic storage on OSG sites.
- ◆ Develop and run validation tests (https://gw014k0:8443/validation_tests)



Open Science Grid Storage for VDT

provided by Tanya Levshina



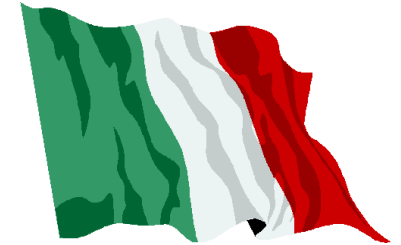
- ◆ Provide administrations support, troubleshooting and debugging.
- ◆ Support of 9 Tier-2 sites.
- ◆ Tickets are submitted via OSG GOC or directly to osg-storage@opensciencegrid.org
- ◆ Actual bugs are submitted to dCache.org
- ◆ About 5/6 dCache related tickets per week.
- ◆ 0.25 FTE is dedicated to storage support (w/o efforts on trouble shooting and serious problems)
- ◆ OSG liaison to dCache group.

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Support for Italy

provided by Giacinto Donvito



- ◆ 4 dCache Tier II centres for CMS and some Tier III's in Italy.
- ◆ Support covers first level support and is backed by dCache.org.
- ◆ Training
 - ◆ e.g. SRM school in BARI soon.
- ◆ Testing facility

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Support for the UK

provided by Jens Jensen



dCache support in UK is covered by gridPP.
Please see special presentation on that topic.

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Others



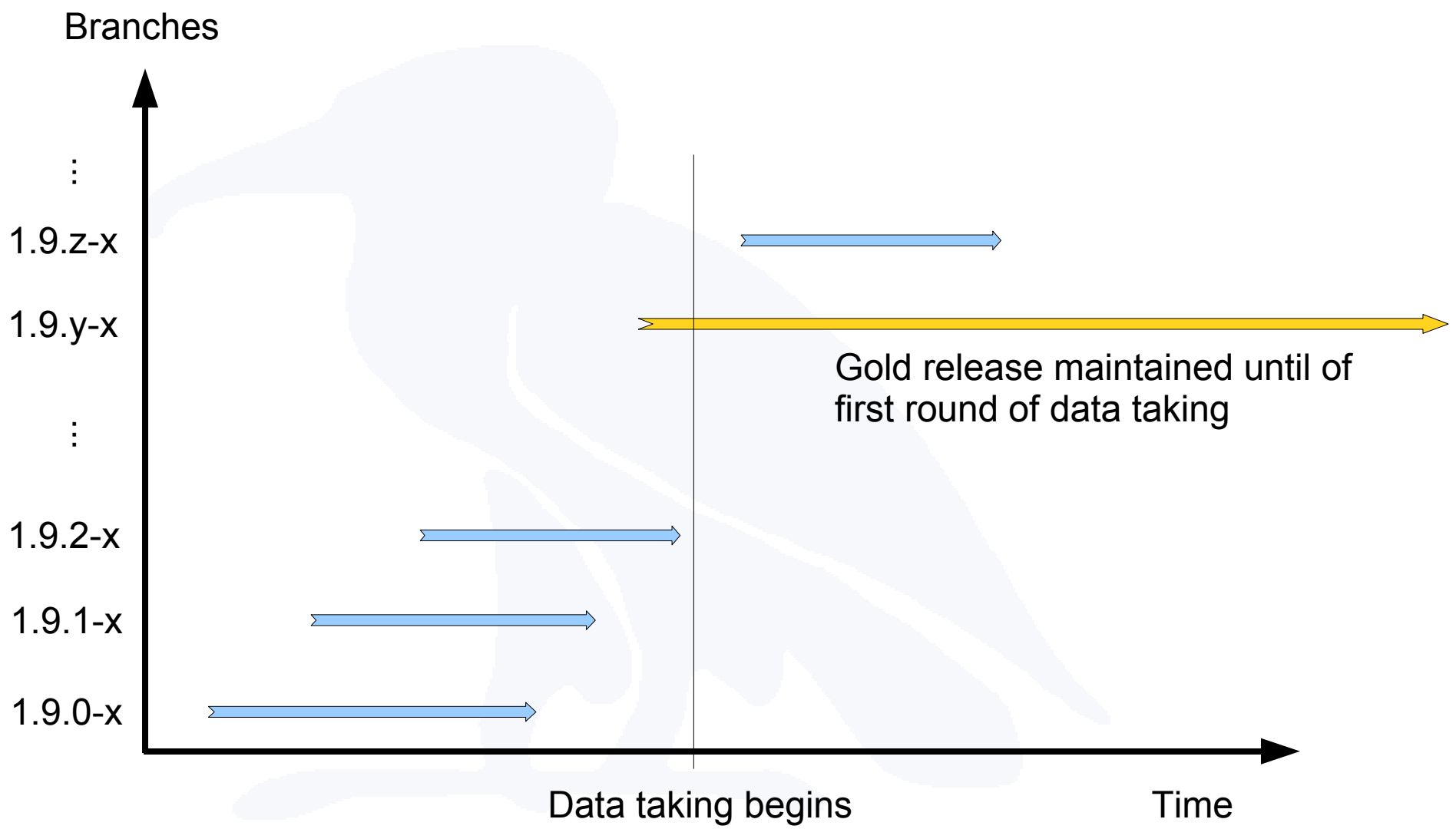
- ◆ All national support teams share some common discussion platforms, e.g. GGUS or the dCache user forum or they have access to the dCache ticket and wiki system.
- ◆ Those colleagues help supporting Tier II's which are not explicitly part of clouds listed above.
- ◆ Those efforts are negligible.



Roadmap



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Summary



- ♦ The support dCache Tier II's is nicely covered by local groups or national projects.
- ♦ Only an insignificant part of those efforts depend on EGEE money which guaranties funding beyond the end of the EGEE project lifetime.
- ♦ Support mostly covers first level support, packaging, training, tools and incidence management.
- ♦ Those groups have a well established relationship to dCache.org and direct access to dCache.org resources.
- ♦ For dCache.org, the support of Tier II's is a negligible effort.
- ♦ Gold release before data taking begins and maintained till end of first round of data taking.



Further reading

www.dCache.ORG



dCache.ORG

dCache.ORG