

« *networking the networkers* »



3rd TERENA TF-Storage Meeting
Dublin, Ireland
12-13 February, 2009

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3rd TERENA TF-Storage Meeting

hosted by





About TERENA

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- The background features a vertical grey bar on the left containing a close-up of a grey rope with a knot. On the right, there are several diagonal, overlapping bands in shades of purple, pink, light blue, and red, extending from the bottom right towards the top right.
- › TERENA offers a forum to collaborate, innovate and share knowledge in order to foster the development of Internet technology, infrastructure and services to be used by the research and education community.
 - › TERENA is first and foremost a collaborative organisation.
 - › Its core business is to bring together managers, technical specialists and other people in the research networking community with their counterparts from other countries in Europe, mobilising the expertise and experience of hundreds of professionals in the research and education networking area.



Special Interest Areas

- › **Lower-layer technologies (Layers 0-4)**
- › **Security**
- › **Middleware**
- › **Mobility**
- › **Voice and Video Collaboration**
- › **Virtualisation**
 - › In addition, **Campus and End-to-End issue coordination** are challenges that have an impact across all special interest areas, while **Grid and Storage collaborations** span many of the areas.



TERENA 'Storage' history

› **Collaboration on Storage Services**

- › This series of meetings began in June 2006, where it was suggested that there might be opportunities for collaboration among NREs for data storage.

- › 1st meeting (June 29, 2007)
- › 2nd meeting (Dec. 14, 2007)

- › There are a great deal of issues to discuss related to data storage, including data retention legislation, privacy laws, disaster recovery, access control, best practice and many more areas which deserve further investigation.
- › Based on the initial discussions the TF-Storage was formulated in February 2008.

› **Past TF-Storage meetings**

- › The 1st TF-Storage meeting was held on April 14, 2008 in Espoo, Finland.
- › The 2nd TF-Storage meeting was held on September 12, 2008 in Riga, Latvia.



TF-Storage addresses the following activity areas

- › to **provide a forum** for exchanging and promoting ideas, experience and knowledge
- › to **identify and promote** the use of common standards, techniques, technologies and procedures in the field of data storage that are relevant to the education and research community.
- › to **be a focal point for** (the gathering of) **storage expertise** within the European educational and research environment.
- › to identify and coordinate and, where possible, collaborate on the **development of storage services**.
- › to work with the NREN AAI federations (TF-EMC2/JRA5) to find possible solutions for **AAI and non-web storage services**.
- › to **liaise with other communities** such as the grid environment, HPC, Internet2, and APAN on storage activities.



Structure of TF-Storage

- › Participants to contribute:
 - › CSC, DFN, GRNET, HEANet, IBBT, NDGF, NIIF, PSNC, Red.ES, STFC - Rutherford Laboratory, SURFnet, SWITCH, UNINETT
- › List of work items:
 - › Knowledge dissemination
 - › Overview of (national) activities and deployments
 - › Taxonomy of storage technologies & (virtualization) middleware
 - › Collection of best practices and service requirements
 - › Storage and AAI
 - › Measuring storage performance
 - › Energy consumption considerations
 - › Poste Restante service
 - › Backup and/or disaster recovery services
 - › Liaise with other communities



Structure of the workshop 1/2

DAY 1 - February 12, 2009

09:00 - 09:15 Registration

09:15-09:30 Welcome, round of introductions, minutes of last meeting

09:30-11:00 IBM cloud technologies, *Pol MacAonghusa, (IBM, CTO Emerging Technologies)*

11:00 - 11:30 Coffee

11:30-12:30 Sun storage direction, *Phil Lawrence (Sun)*

12:30 - 13:30 Lunch break

13:30-14:15 iPODS: Intelligent Performance Optimisation of Virtualised Data Storage Systems, *Nicholas John Dingle (Imperial College London)*

14:15-15:00 dCache, *Paul Millar (Desy)*

15:00 - 15:30 Coffee

15:30-16:15 CineGrid project, *Jeroen Roodhart (Univ. of Amsterdam)*

16:15-17:00 GRnet simple storage service, *Kostas Koumantaros (GRNet)*

20:00 - **Dinner**



Structure of the workshop 2/2

DAY 2 - February 13, 2009

09:00-10:00	NREN disaster recovery services, <i>Jan Meijer (UNINETT)</i>
10:00-10:30	High speed storage transfer, <i>Sajid Qureshi (Attoware)</i>
10:30 - 11:00	Coffee
11:00-11:30	Federating SSH access, <i>Cándido Rodríguez Montes (RedIRIS)</i>
11:30-12:00	Shibbolized iRODS, <i>David Corney (Rutherford Appleton Lab.)</i>
12:00-12:30	TF-Storage work items: Poste Restante, etc.
12:30 - 13:30	Lunch break
13:30-15:00	Round table: plans for 2009
15:00 - 15:30	Coffee



Contacts

- › TF-Storage website
 - › <http://www.terena.org/activities/tf-storage/>
- › Storage mailing list:
 - › storage@terena.org
- › Storage Wiki
 - › <https://wiki.terena.org/index.php/TF-Storage:Contents>
- › TERENA Secretariat
 - › szegedi@terena.org



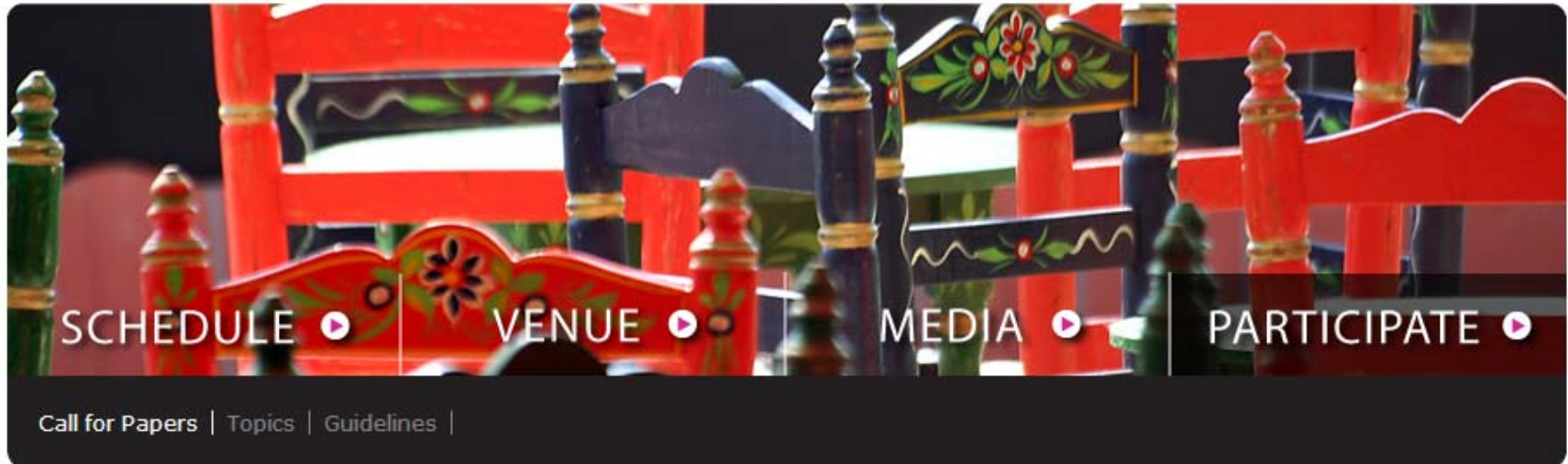
TERENA Networking Conference 2009

8-11 June, 2009

Malaga, Spain

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Virtuality into Reality

an invitation from the Programme Committee

On behalf of the programme committee, it is my pleasure to invite you to the 12th TERENA Networking Conference (TNC 2009), to be hosted by the University of Málaga and RedIRIS, the Spanish national academic and research network, in Málaga, Spain, from 8 to 11 June 2009.

Over the past few years we have become accustomed to everything from computers to organisations being described as 'virtual', as it has become increasingly common to use networks and software to emulate these physical world entities. This has allowed many of the constraints of physical and geographical space to be removed: people and resources forming a virtual organisation do not need to be in the same location; virtual