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The DCH-RP project:

Digital Cultural Heritage – Roadmap for Preservation

requirements and implementations of
federated access to digital cultural
heritage contents

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5th FIM4R meeting, PSI, Villigen, 20-21 March 2013



Agenda

- An overview on the DCH-RP, a project concerning the preservation of Digital Cultural Heritage.
- The requirements on federated access coming from the cultural heritage community.
- The eCulture Science Gateway as a tool to satisfy the community requirements.

13 participants in DCH-RP

ICCU (coordinator), Italy

(the Central Institute for the Union Catalogue of Italian Libraries and for Bibliographic Information)

Belspo, Belgium

EGI, International, The Netherland

Michael Culture, International

Promoter, Italy

Collection Trust, United Kingdom

INFN, Italy

NIIF, Hungary

Riksarkivet, Sweeden

EDItEUR, International

Kultuuriministeerium, Estonia

POZNAN, Poland

TERENA, International, The Netherland



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Overview of the DCH-RP project

Project goals:

- Prepare a Roadmap for Preservation (RP)
- Cover Digital Cultural Heritage (DCH) aspects
- Conduct a coordination action within EU FP7
- Think about implementing a federated e-Infrastructure
- More general vision: Open Science Infrastructure
- Target period: 2014-2020 (cf. Horizon 2020)
- Proofs of concepts will help validation of conclusions
- Objective: harmonising demand and supply of services
(integrating of DCH organisations' and e-Infrastructures' approaches)

Requirements coming from the cultural heritage community

1. Describe one or several use cases, inside the cultural heritage community, where users belonging to different home organizations need to share data, or collaborate, or access a common platform.
2. What kind of data do the users want to share? Describe types of data, size of data, the amount of data.
3. Why the user need authentication? (i.e. they need to be identified to have permission for upload data, they need to be known by the community,)
4. Which kind of authorization the user need? Could an entitlement assured by her organization be sufficient? If not why? What do you imagine should be needed to grant authorization?

Use cases



- is a Web portal.
- contains digital collections of literary, scientific, artistic, and musical archives
- cultural institutions can become partners of IC.
- metadata are indexed by IC's services through the standard protocol OAI-PMH.
- digital objects reside in peripheral archives.
- provides a free management and conservation service for digital collections at web resolution and complete with metadata.



Magazzini

Digitali



• is the national long term digital preservation infrastructure for legal deposit of Italian publications. It is a joint effort of National Libraries of Florence, Rome and Marciana (Venice).
• is based on: an organizational model suitable for creating the national archive (and also regional archives) of electronic publishing production, as provided for by the law; a service model suitable for balancing copyright and end users rights to access information.

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- types of data:
 - text for Metadata (in MAG, METS and PREMIS standards), web copies of digital objects (text, img, audio, video, designs), original digital resources, digitized resources (ancient books, paintings, ...)
- size of data:
 - Not specified (different sizes for different formats)
- the amount of data:
 - Not specified, but presumably huge

Why the user need authentication?

- Users are members of cultural institutions involved in the production of the digital cultural heritage
- Need to identify people, coming from different institutions, that have the permission to manage the digital assets, when accessing one or more common platforms

Which kind of authorization the user need?

- authorizations mapped to roles in a workflow schema
- At the same time authorizations should respect the different policies already followed by all the institutions members of the community

- Entitlements provided by IDPs?
- Roles provided by SPs?
- Roles provided by a VO?

eCSG as a tool for CH community

- e-CultureScienceGateway (e-ScienceGateway in a more general fashion) is a web portal that interfaces users to e-infrastructures like grids



Data requirements: The DCH-RP available resources

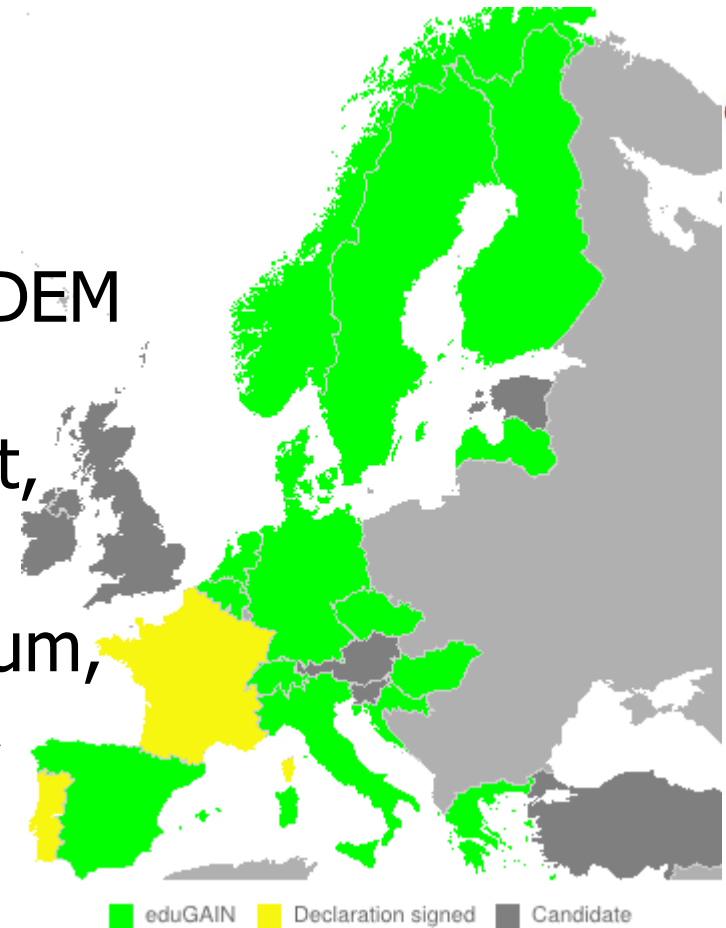
```
GARR-01-DIR ldap://gridsrv4-4.dir.garr.it:2170/mds-vo-name=garr-01-dir,o=grid
INFN-CATANIA ldap://alifarm10.ct.infn.it:2170/mds-vo-name=inf-n-catania,o=grid
PSNC ldap://bdii.reef.man.poznan.pl:2170/mds-vo-name=PSNC,o=grid
```

No.	Available space (kB)	Used space (kB)	Type	Storage Element
1	3.474.243.843	780.489.468	SRM	gridsrv3-4.dir.garr.it
2	13.999.999.992	7	SRM	prod-se-02.ct.infn.it
3	15.311.422.562	7.109.837.177	SRM	se.reef.man.poznan.pl
Total	32.785.666.397	7.890.326.652		
Total (TB)	30,53	7,35		

Federated authentication

eCSG supports access from:

- national identity federations (IDEM for Italy) and could join other national federations, like Belnet, Swamid, TAAT.
- eduGAIN (Italy, Sweden, Belgium, Hungary are already members; Estonia is candidate)
- social networks



Authorization:

The DCH-RP group services



VO ID CARD
EGE-INFN-RE
VO IDCard : vo.dch-rp.eu - Generation date: February 14, 2013

General information

- Name : vo.dch-rp.eu
- Scope : Global
- Status : Production
- Validation date :
- Discipline : Others
- Supported middlewares : gLite
- Enrollment Url :
- Homepage Url : http://www.vo.dch-rp.eu
- Support Procedure Url :
- GGUS dedicated user : support : No
- GGUS ticket for VOMS setup support : No

Description :
DCH-RP aims to harmonize data storage and preservation policies in the digital cultural heritage sector; to progress a dialogue and integration among institutions, e-Infrastructures, research and private organisations; to identify models for the governance, maintenance and sustainability of the integrated infrastructure for digital preservation of cultural content.

Acceptable Use Policy :
vo.dch-rp.eu-AcceptableUsePolicy-20130210-1207132424

Resources

- Max used physical non-swap 1386 memory size (MB) : 2048
- Max used physical non-swap x86_64 memory size (MB) : 2048
- Max size of scratch space used by jobs (MB) : 1024
- Max time of job execution (minutes) : 1440
- Max wall clock time limit (minutes) : 1440

Other requirements :

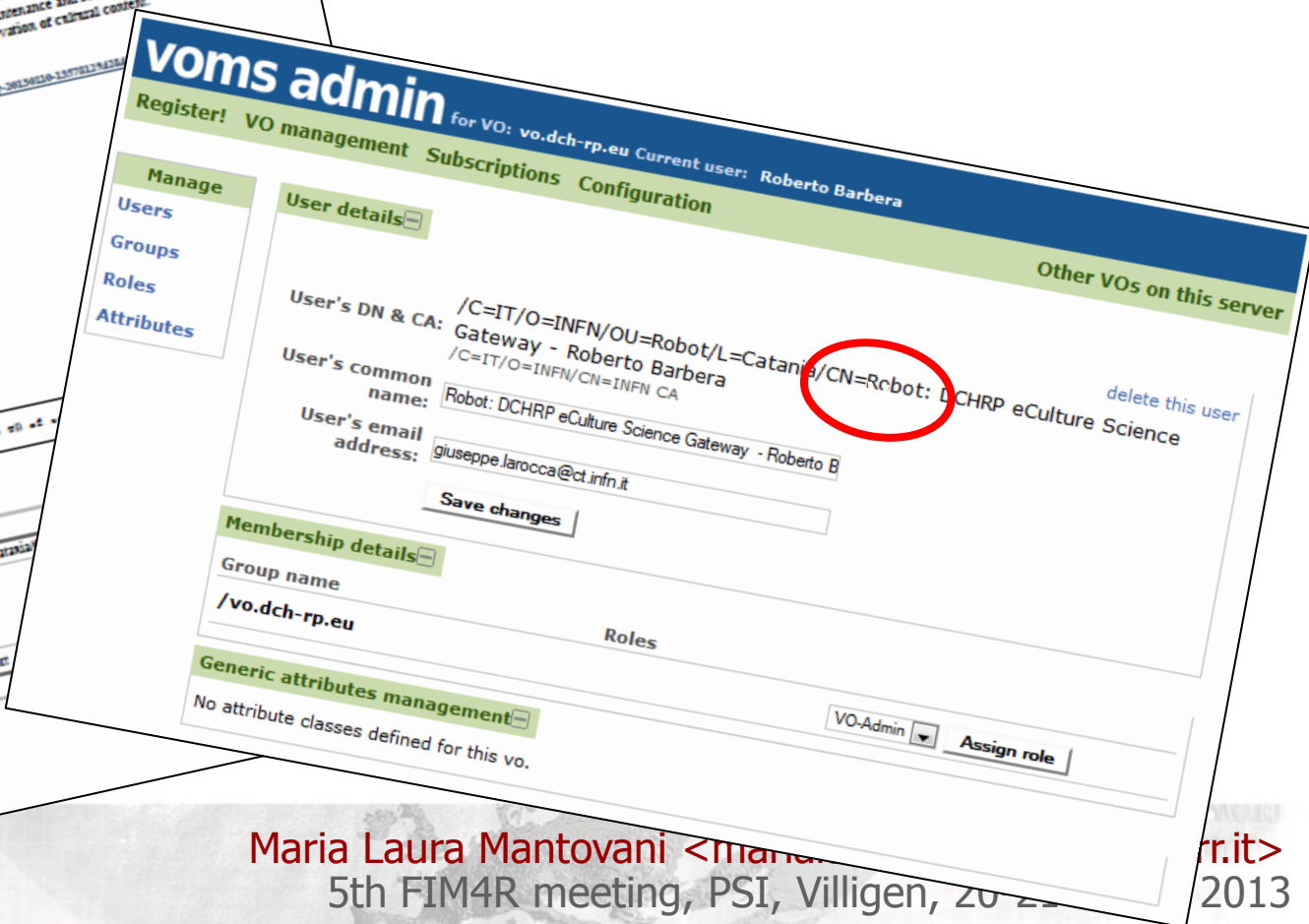
Generic contacts

Full name	DN
Enrico Gioglio	/C=IT/O=INFN/OU=central/CN=Enrico Gioglio

VOMS information

Hostname	Certificate expiration	Req. Id
vo.dch-rp.eu	Thu Oct 15 15:21:43 CEST 2013	8443

Groups and Roles
No Groups/Roles defined for this VO



voms admin for VO: vo.dch-rp.eu Current user: Roberto Barbera

Register! VO management Subscriptions Configuration Other VOs on this server

Manage
Users Groups Roles Attributes

User details

User's DN & CA: /C=IT/O=INFN/OU=Robot/L=Catania/CN=Robot: DCHRP eCulture Science Gateway - Roberto Barbera
User's common name: Robot: DCHRP eCulture Science Gateway - Roberto B
User's email address: giuseppe.larocca@ct.infn.it

Membership details

Group name: /vo.dch-rp.eu Roles

Generic attributes management
No attribute classes defined for this vo.

Save changes Assign role

Thanks!

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