



Updates on DCH-RP services, resources, and the e-CSG

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Outline



- ❑ Status of the DCH-RP infrastructure
- ❑ The TERENA AAA Study and some driving considerations
- ❑ Federated identity services available
- ❑ The e-Culture Science Gateway
- ❑ Upload/download of contents and current middleware limitations
- ❑ Summary and conclusions

The DCH-RP VO services



VO ID CARD EGI-InSPIRE
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/Account/VO/Default.aspx?Page=20130210-1507132404

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
- Job wall clock time limit (minutes) : 1440

Other requirements :
See each user supporting this VO. It is in options 2.8 of v2

Generic contacts

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

VOMS information

Hostname	Certificate expiration	Hosts
vo.dch-rp.eu	The Oct 15 15:21:43 CEST 2013	6443

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 VO's on this server

Manage
Users Groups Roles Attributes

User details

User's DN & CA: /C=IT/O=INFN/OU=Robot/L=Catania/CN=Robot: L=CHRP 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.

delete this user

Save changes

VO-Admin Assign role

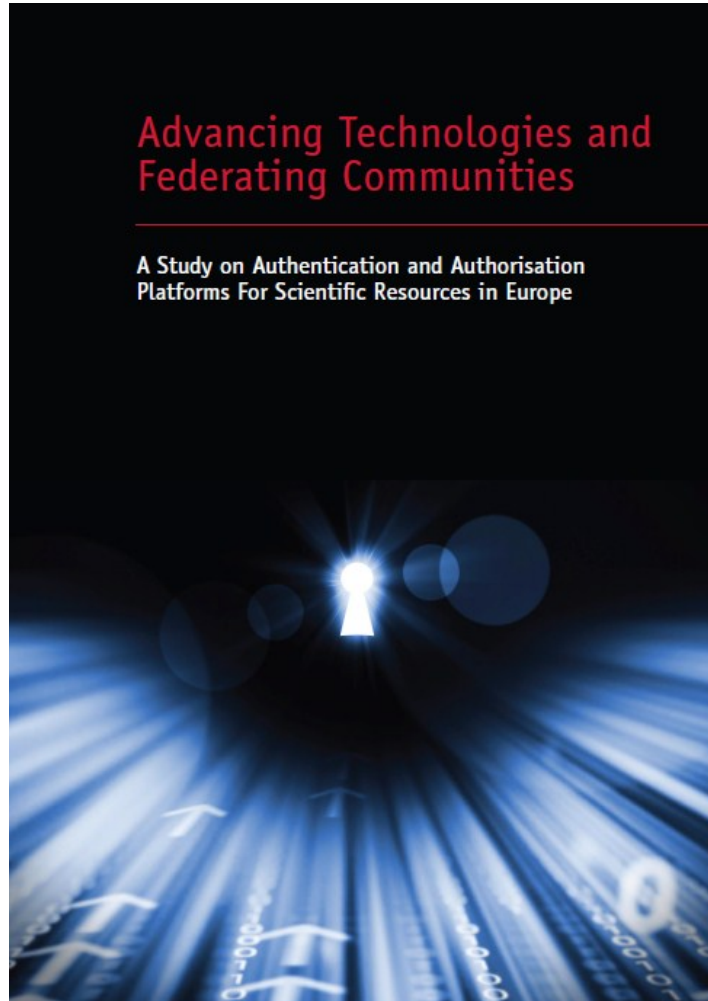
The DCH-RP available resources



```
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=infn-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		

The TERENA AAA Study (commissioned by the EC)

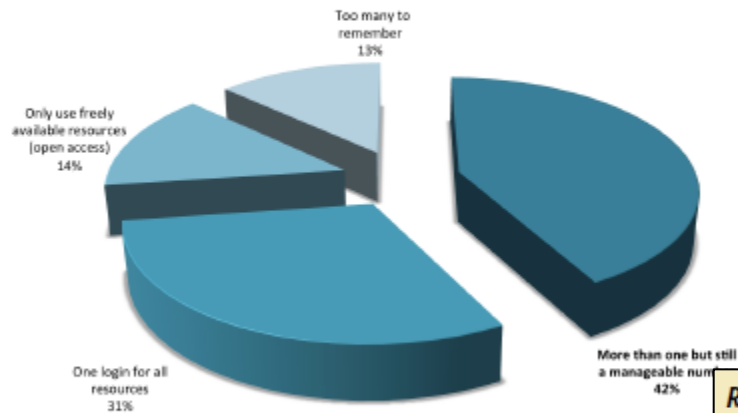


The goal has been broken down into **two objectives**:

1. A collection of **users' access requirements** coming from different communities;
2. A **gap analysis of the existing AIs** used in the realm of research and education, the use-cases they support and the associated challenges.

The TERENA AAA Study (commissioned by the EC)

Nearly half of researchers use more than one credential, but a large majority would prefer to access all resources using their institutional credentials.



Researchers primarily use their institutional credentials for authentication (Figure 2.3), although a not insignificant number (19%), use their social network accounts to access scientific information.

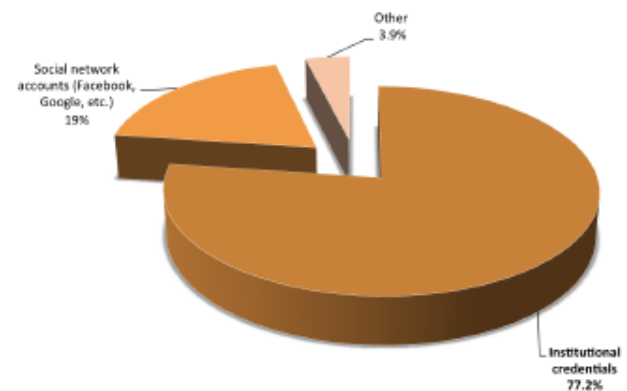


Figure 2.3: Credentials used by researchers

Figure 2.4: Number of credentials used by researchers

The TERENA AAA Study

(commissioned by the EC)



Recommendations

<p>Enhance existing AA infrastructures to address the demands of research communities for accessing different types of services in a manageable and secure way.</p>	<p>AAA support for mobile access;</p> <p>Support for non-Web browser applications;</p> <p>Develop security token translation services to enable inter-operability of different AAs;</p> <p>Provide guest IdPs for users that cannot rely on an institutional IdP;</p> <p>Allow for effective resource usage accounting for distributed and heterogeneous environments;</p> <p>Enable the uptake and use of persistent identifiers within AAs;</p> <p>Support social network identities in combination with institutional identities to address specific use-cases for the SDI.</p>	<p>National Identity Federations, eduGAIN, Research collaborations (i.e., big scientific projects)</p>	<p>Technical</p>
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The GrIDP «catch-all» federation



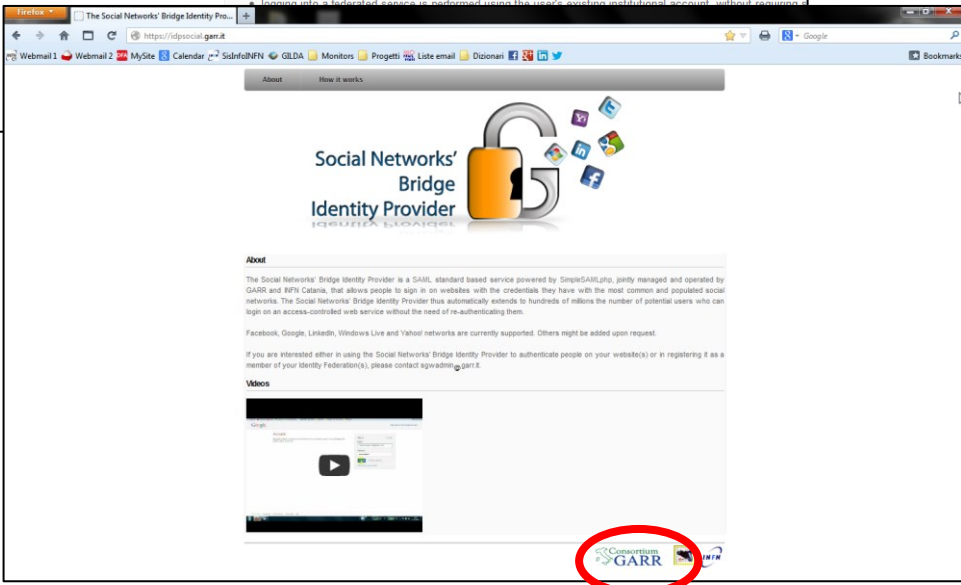
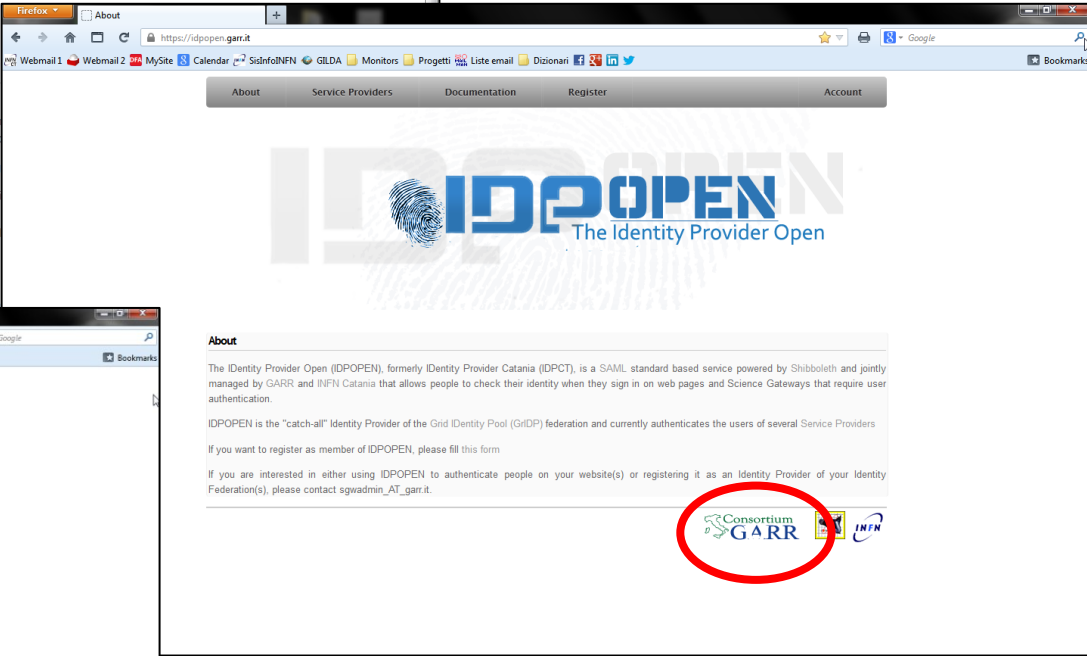
About

The Grid Identity Pool (GrIDP) is an Identity Federation, jointly managed and operated by GARR and INFN e-Infrastructure services and providing federated authentication to its members. Through GrIDP, users can access IT and Science Gateways, in an easy yet secure and confidential way, using the credentials provided by the organisations.

The GrIDP Identity Federation comprises members of the academic, research and entrepreneurial world. They belong to:

- **Identity Providers (IdP)**: the entities (e.g. academic and research institutions, enterprises, etc.) authenticating users.
- **Service Providers (SP)**: the entities providing services to the federation. They may receive individual users' credentials for the purpose of authentication and provision of personalized services.

The participation of an Identity Provider to GrIDP provides multiple benefits to its users:



EGI SSO is also an IdP of GrIDP



The DCH-RP e-CSG (<http://ecsg.dch-rp-eu>)



[Register](#) [Sign In](#)

DCH RP DIGITAL CULTURAL HERITAGE ROADMAP FOR PRESERVATION

Welcome

How to Register and Sign-in

[Proofs of Concept](#)

[Back to the DCH-RP website](#)

Follow us on the Social Networks, including the possibility to access the e-Culture Science Gateway from within the Social Network page.

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[Like](#) [You like this.](#)

DIGITAL CULTURE

Welcome to the DCH-RP e-Culture Science Gateway

The DCH-RP e-Culture Science Gateway (eCSG) is a standard-based web 2.0 demonstrative platform to show the Proofs of Concepts (PoCs) identified by the DCH-RP project and how they fit with the requirements defined in the Roadmap.

Data contained in the eCSG are stored on the European Grid Infrastructure and are accessible through the pan-European GEANT network and the National Research & Education Networks.

[DCH-RP Project](#)
c/o ICCU
viale Castro Pretorio, 105
00185 Roma, Italy
tel. + 39 06 49210427
Contacts: [account](#) - [project](#) - [support](#)

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This is a Service Provider of:
 GIDP

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The DCH-RP e-CSG (<http://ecsg.dch-rp-eu>)



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[How to Register and Sign-in](#)

Proofs of Concept

- De Roberto DR
- MED Repo
- China Relics DR
- CULTNAT Collections
- ICCU Collections

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DIGITAL CULTURE

De Roberto DR

Acronym: De Roberto DR
Name: Digital Repository of Federico De Roberto works
Domain: Cultural Heritage

DR **DE ROBERTO**
digital repository

d r **Library**

[Member Login](#)

To login as guest, type visitor both as [Username and Password](#).

If you don't have any credentials, click [here](#).

The GrIDP Discovery Service and the IDPOPEN GARR login



Select an Identity Provider

The Service you are trying to reach requires that you get authenticated. Please, choose from the list below the Federation and the Organisation you belong to.

Federation	Organisation
GARR-IDEM-TEST (Italy)	EGI.eu
GrIDP (catch-all)	https://shibboleth.maatg.fr/idp/shibboleth
All IDPs	IDPOPEN GARR
	Istituto Nazionale di Fisica Nucleare
	Social Networks' Bridge IdP
	UNAM

Remember for session

In case of problems, please send an email to sgwadmin@garr.it.
Do not bookmark this page! After login you will be redirected to the portal you wanted to use.

This service is powered by Shibboleth.

Identity Provider Open

Login Page

In order to access the portal <https://ecsg.dch-rp.eu>, please enter your IDPOPEN credentials.

Lost/forgotten Credentials

In case of lost or forgotten credentials, please send an email to: sgwadmin@garr.it

Do not bookmark this page!

After login you will be redirected to the portal you wanted to use.

User

Password

A diagram showing five blue human figures connected by lines, with a yellow padlock icon in the foreground.

This service is powered by Shibboleth.

The DCH-RP e-CSG (<http://ecsg.dch-rp-eu>)



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Follow

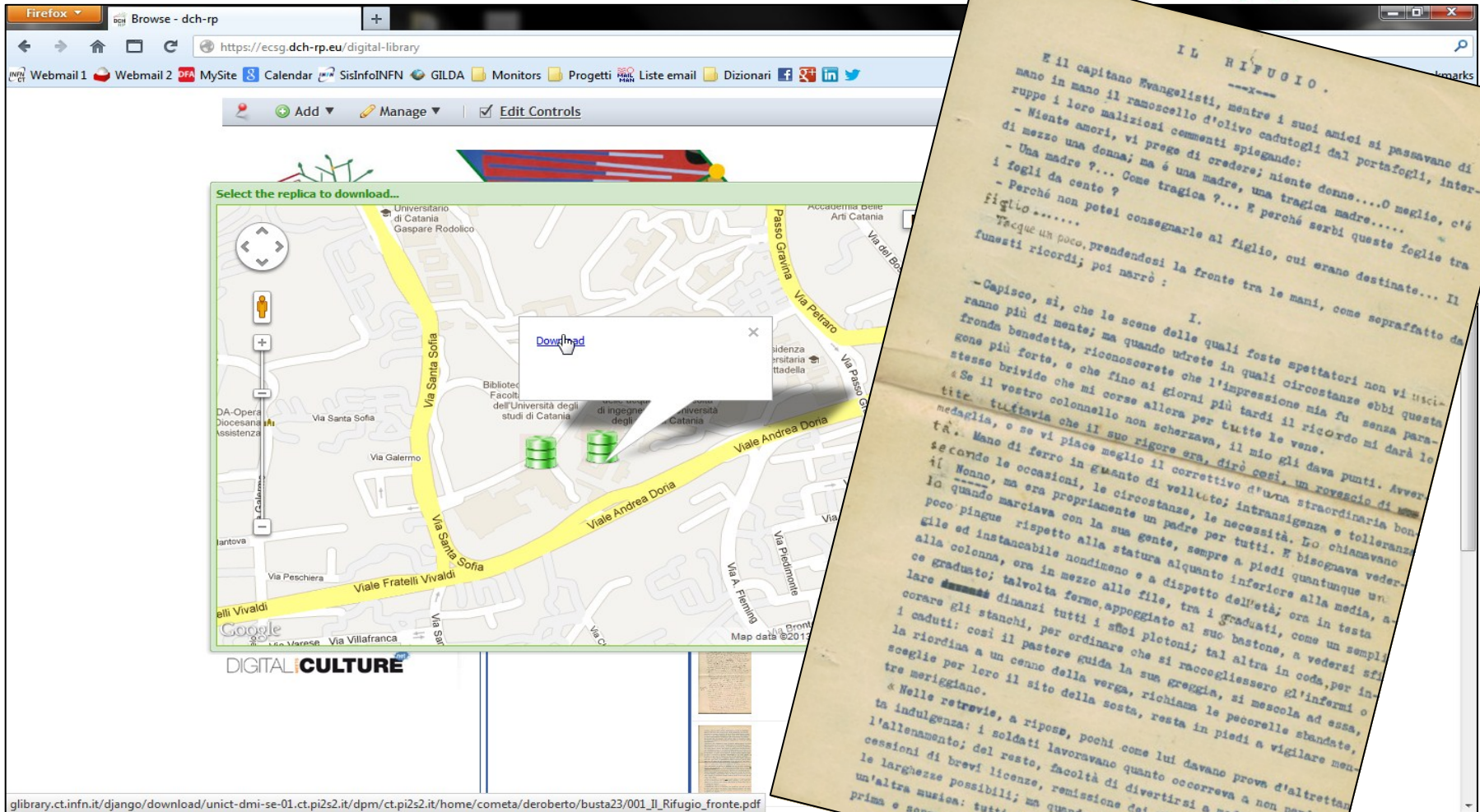
Like You like this.

DIGITAL CULTURE

De Roberto DR

Thumb	Title	Description
	il rifugio	dattiloscritto di federico de roberto patria per la sicilia orientale; dattilo
	il rifugio	dattiloscritto di federico de roberto patria per la sicilia orientale; dattilo
	il rifugio	dattiloscritto di federico de roberto patria per la sicilia orientale; dattilo
	il rifugio	dattiloscritto di federico de roberto patria per la sicilia orientale; dattilo

The DCH-RP e-CSG (<http://ecsg.dch-rp-eu>)



Firefox - Browse - dch-rp
https://ecsg.dch-rp-eu/digital-library

Select the replica to download...

Download

IL RIFUGIO.

E il capitano Evangelisti, mentre i suoi amici si passavano di mano in mano il ramoscello d'olivo cadutogli dal portafogli, interruppe i loro maliziosi commenti spiegando:
- Niente ameri, vi prego di credere; niente donne....O meglio, c'è di mezzo una donna; ma è una madre, una tragica madre.....
- Una madre?... Come tragica?... E perché serbi queste foglie tra i fogli da cento?
- Perché non potrei consegnarle al figlio, cui erano destinate... Il figlio.....
Tacque un poco, prendendosi la fronte tra le mani, come sopraffatto dai funesti ricordi; poi narrò:

I.
- Capisco, sì, che le scene delle quali foste spettatori non vi usciranno più di mente; ma quando udrete in quali circostanze ebbi questa fronda benedetta, riconoscerete che l'impressione mia fu senza paragone più forte, e che fino ai giorni più tardi il ricordo mi darà le stesse brivide che mi corse allora per tutte le vene.
Se il vostro colonnello non scherzava, il mio gli darà le titole, tuttavia che il suo rigore era, dirò cegi, un rovescio di medaglia, e se vi piace meglio il correttivo d'una straordinaria bonafà. Mano di ferro in quanto di velluto; intransigenza e tolleranza secondo le occasioni, le circostanze, le necessità. Lo chiamavano il Nonno, ma era propriamente un padre per tutti. E bisognava vederlo quando marciava con la sua gente, sempre a piedi quantunque un poco pingue rispetto alla statura alquanto inferiore alla media, agile ed instancabile nondimeno e a dispetto dell'età; ora in testa alla colonna, era in mezzo alle file, tra i graduali, come un semplice graduto; talvolta fermo, appoggiato al suo bastone, a vederli correre dinanzi tutti i sforzi plotoni; tal'altra in coda, per incorare gli stanchi, per ordinare che si raccogliessero gl'infermi o i caduti: così il pastore guida la sua greggia, si mescola ad essa, la riordina a un cenno della verga, richiama le pecorelle sbandate, sceglie per loro il sito della sosta, resta in piedi a vigilare prima e sopra di ogni cosa. Legittimamente orgoglioso dei risultati nelle retrovie, a ripose, pochi come lui davano prova d'altrettanta indulgenza: i soldati lavoravano quanto occorreva a non perdere l'allenamento; del resto, facoltà di divertirsi a modo loro, concessioni di brevi licenze, remissione dei piccoli trascorsi, tutte le larghezze possibili; ma quando si passava in linea, ecco subito un'altra musica: tutti in gamba, disciplina severissima, il dovere prima e sopra di ogni cosa. Legittimamente orgoglioso dei risultati

glibrary.ct.infn.it/django/download/unict-dmi-se-01.ct.pi2s2.it/dpm/ct.pi2s2.it/home/cometa/deroberto/busta23/001_IL_Rifugio_fronte.pdf

The DCH-RP e-CSG Community page on FB



DCH e-CultureSc
13 likes

App Page
This page is devoted to the community of users of, and people interested in, the e-Culture Science Gateway (click on "Go to App" to access it).

About

Status Photo / Video Event, Milestone +

Write something...

DCH RP DCH e-CultureScienceGateway Community shared a link. Yesterday

If you want to know more on DCH_RP, you can visit the project website <http://www.dch-rp.eu/>

facebook

Register Sign In



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IdP

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SSO possible through the Social Networks' Bridge IdP

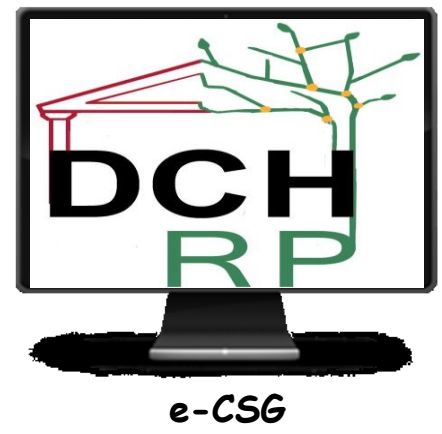
Upload of DCH contents (e-CSG «in the middle»)



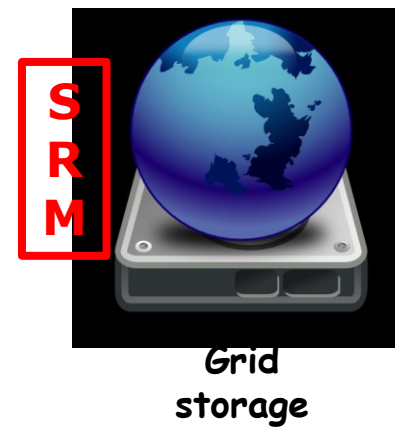
**Immediately feasible
but non scalable**



**1. Upload on
the eCSG**



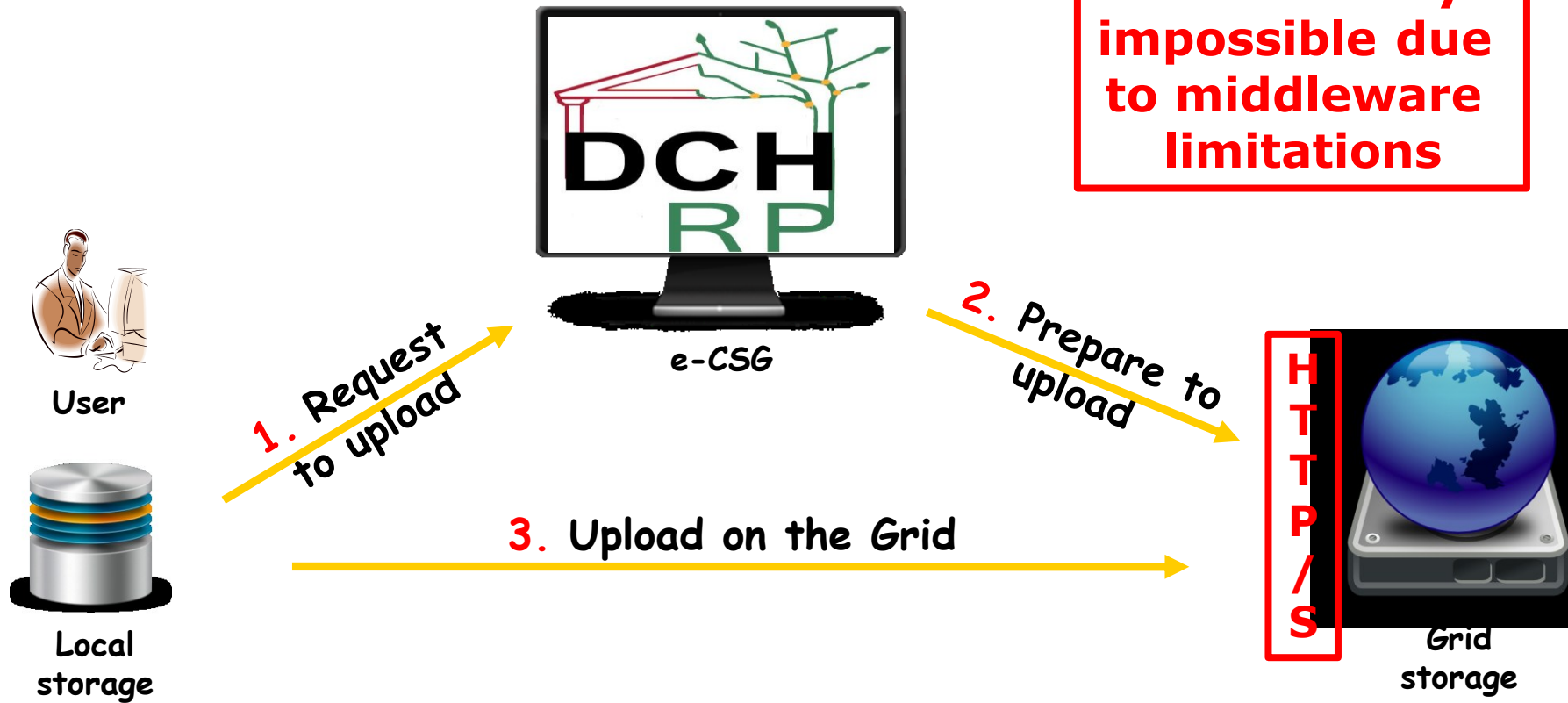
**2. Upload on
the Grid**



Upload of DCH contents (e-CSG «as a broker»)



**Very scalable
but currently
impossible due
to middleware
limitations**



Current status of HTTP/S interface in EMI-2 SE's



□ DPM SE

- GET function supported
- PUT function supported (through WebDav)
- POST function unsupported (needed by browsers)
 - We have made a «new feature» request; estimated implementation time: 2 months
 - In Catania we have developed a patch that works with EMI-2

□ StoRM SE

- GET/PUT/POST functions unsupported in EMI-2
- They will be supported in EMI-3, to be released at the end of February

□ dCache SE

- No information yet
- We have to investigate with the developers

Summary and conclusions



- ❑ DCH-RP VO services have been created
- ❑ Several TB's of disk space are already available to host the data of the Proofs of Concept
- ❑ The e-CSG has been released and integrated with federated identity services
- ❑ Current middleware limitations prevent to use StoRM and dCache Storage Elements
- ❑ A patch has been created for DPM so we can start implementing the service in the e-CSG



Thank you!

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