

Unlocking data: federated identity with LSDMA and dCache

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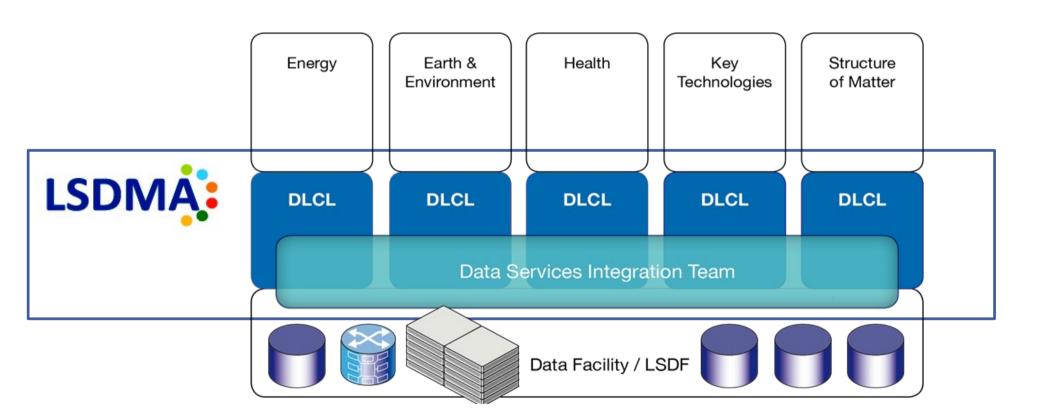






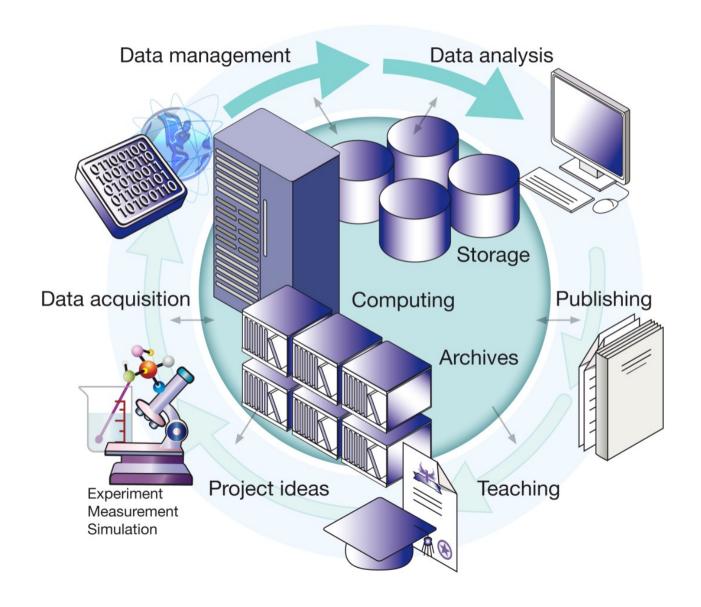


What is LSDMA



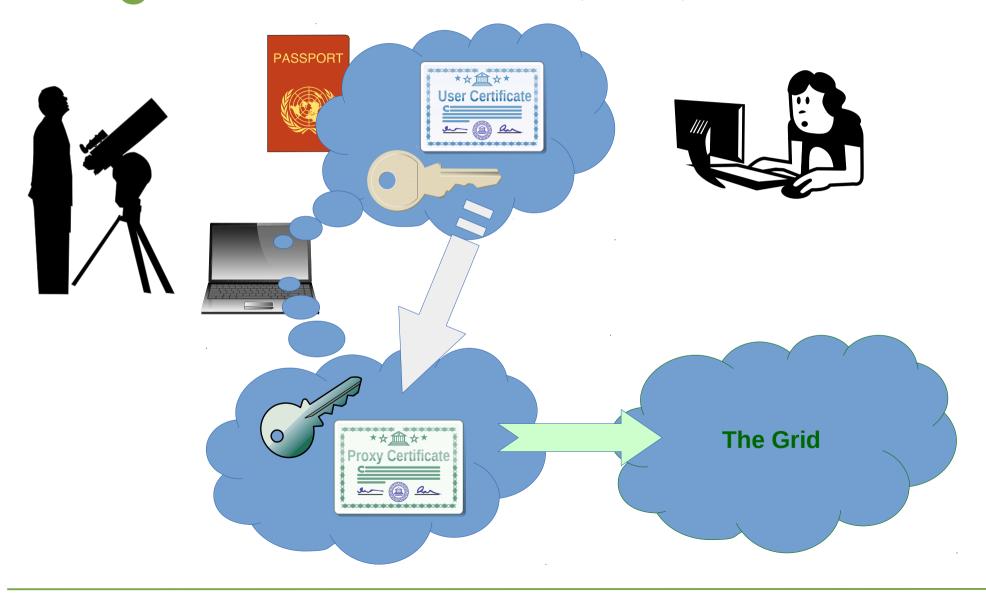


What is LSDMA





The grid solution: X.509 (user) certificates





X.509 certificates: a huge success!

"It's been a global effort, a global success. It has only been possible because of the extraordinary achievements of the experiments,

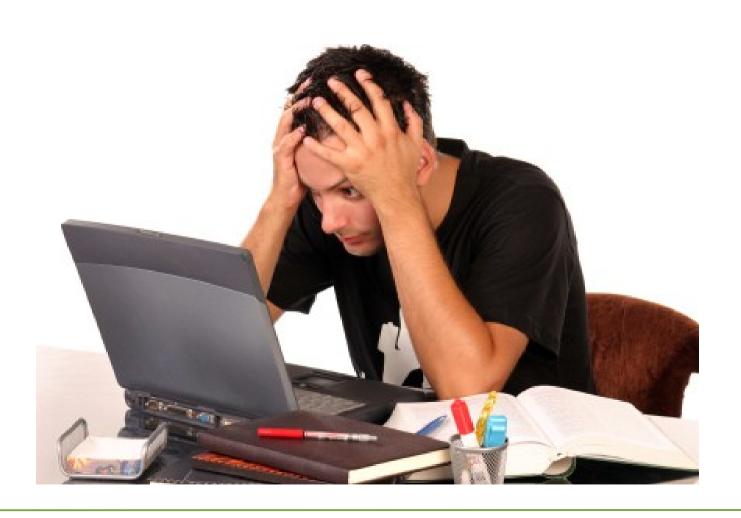


infrastructure and the **grid computing**."

Rolf Heuer, the Director General of CERN



X.509 certificates: typical user reaction





Federated Identity



Check who you are &
Authorisation decision

Check who you are



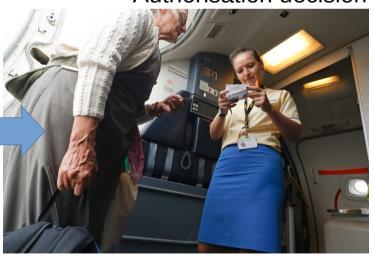
Identity Provider (IdP)

Record information



Assertion

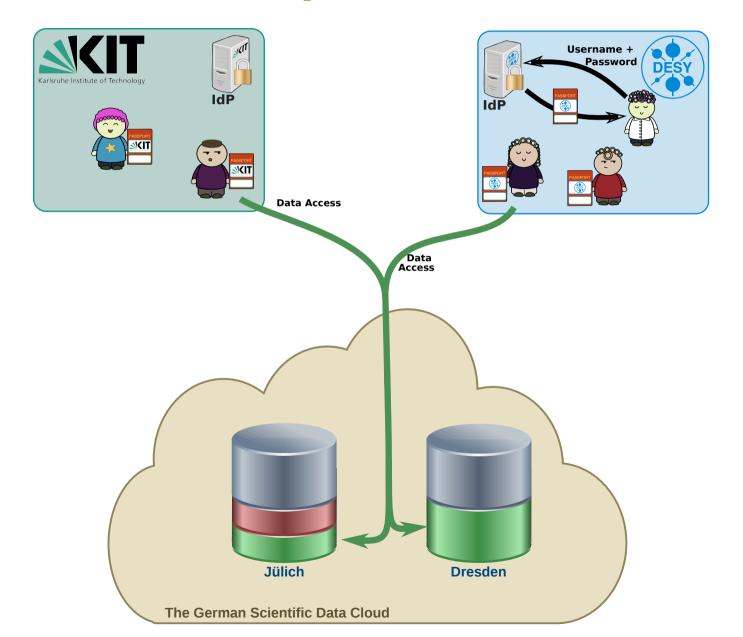
Authorisation decision



Service Provider (SP)

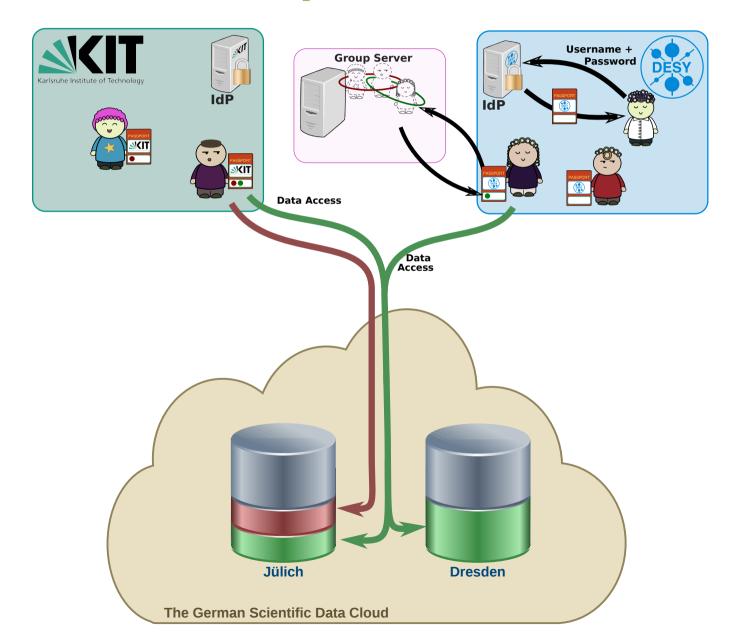


Federated Identity: the vision





Federated Identity: the vision



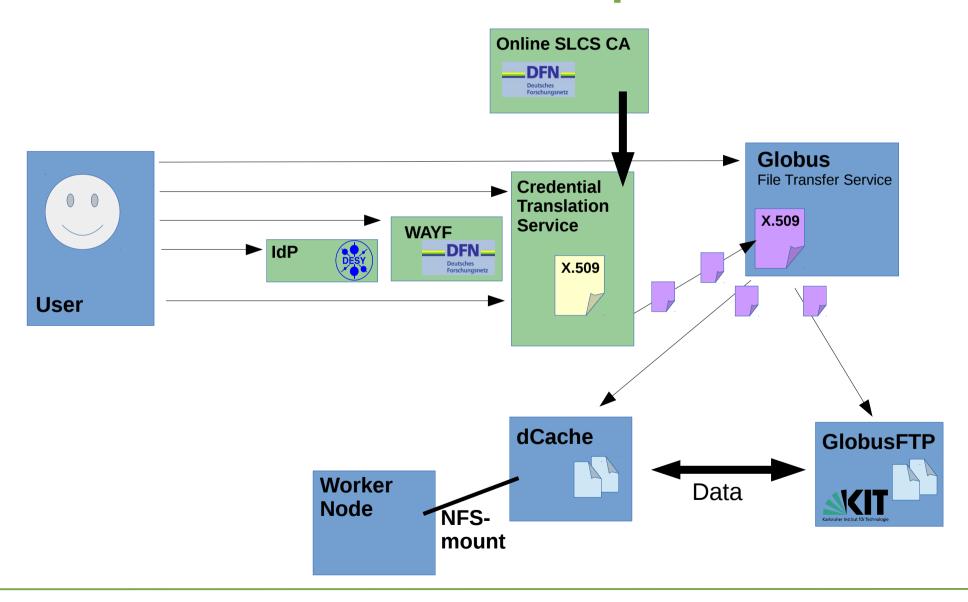


Web portals

- User logs in with Federated Identity authentication.
- Web portal needs access to data but existing infrastructure is X.509 based.
- Two choices:
 - "Generate" X.509 credential,
 - Update infrastructure to support Federated Identity credentials.
- Plan to do both, but focusing on the first one initially.



Credential translation: the plan





Command-line support

- Work on hybrid approach
 - Send assertion as a "password"
 - Uses an "Idap façade" service
 - "Password" (assertion) is processed by Idap façade.
 - Requires user to somehow acquire assertion.
- Moonshot is an alternative

See Daniel Kouřil's talk yesterday



AARC

- A new project to fix all this!
 - ~€3M budget, 19 funded+2 unfunded
 - 2 year project, starts 1 May 2015.
 - Broad scope, which includes non-web clients.
- Plan to collaborate with AARC

(one of the LSDMA institutes is part of the project)



Next steps

- Working on building up a reliable CTS.
- Investigate command-line options
 Continue existing work, liaise with AARC
- Add support in dCache for Federated Identity-based login
 - Initial version assumes web-browser and has an Apache front-end.



Thanks for listening.

Any questions?