



Quick Overview

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On behalf of the project team



Courtesy of Ron T.



Content

- Funding
- People
- Distribution Channels
- H2020
- Activities
 - Development
 - Collaborations
- dCache strategy

Update: Funding and Partners

dCache.org



- Organizations:
 - FERMIlab
 - DESY
 - NDGF
 - HTW Berlin (through LSDMA)
- Projects:
 - LSDMA (Germany) completely replacing EMI

Update: People



- **FERMIlab**: Dmitry and AI
- **NDGF**: Gerd (Temporarily quite busy)
- **THW Berlin (Students)**: Leonie, Jana and Tom
- **DESY**: Karsten, Christian, Paul, Tigran and Patrick (missing Antje)
- **Support**: Aachen (Oleg), KIT (Xavier), Munich (Christoph)
- **Considering to join**: Jülich (Bastian, André)

Consequence of no Antje



- Book updates are delayed.
- Tickets are delayed
- We'll have to reassign those tasks at the developers meeting next week.
- Volunteers are welcome.....



- Separate presentation on release policies by our Release Manager, Dr. Millar, later today.
- No EMI distribution any more
- Still distributing through EGI (UMD)
 - If you have strong opinions on that, we can discuss this during Pauls ‘release policy’ presentation.
- However, mostly from the dCache web pages.

New EC funding period (H2020)

dCache.org

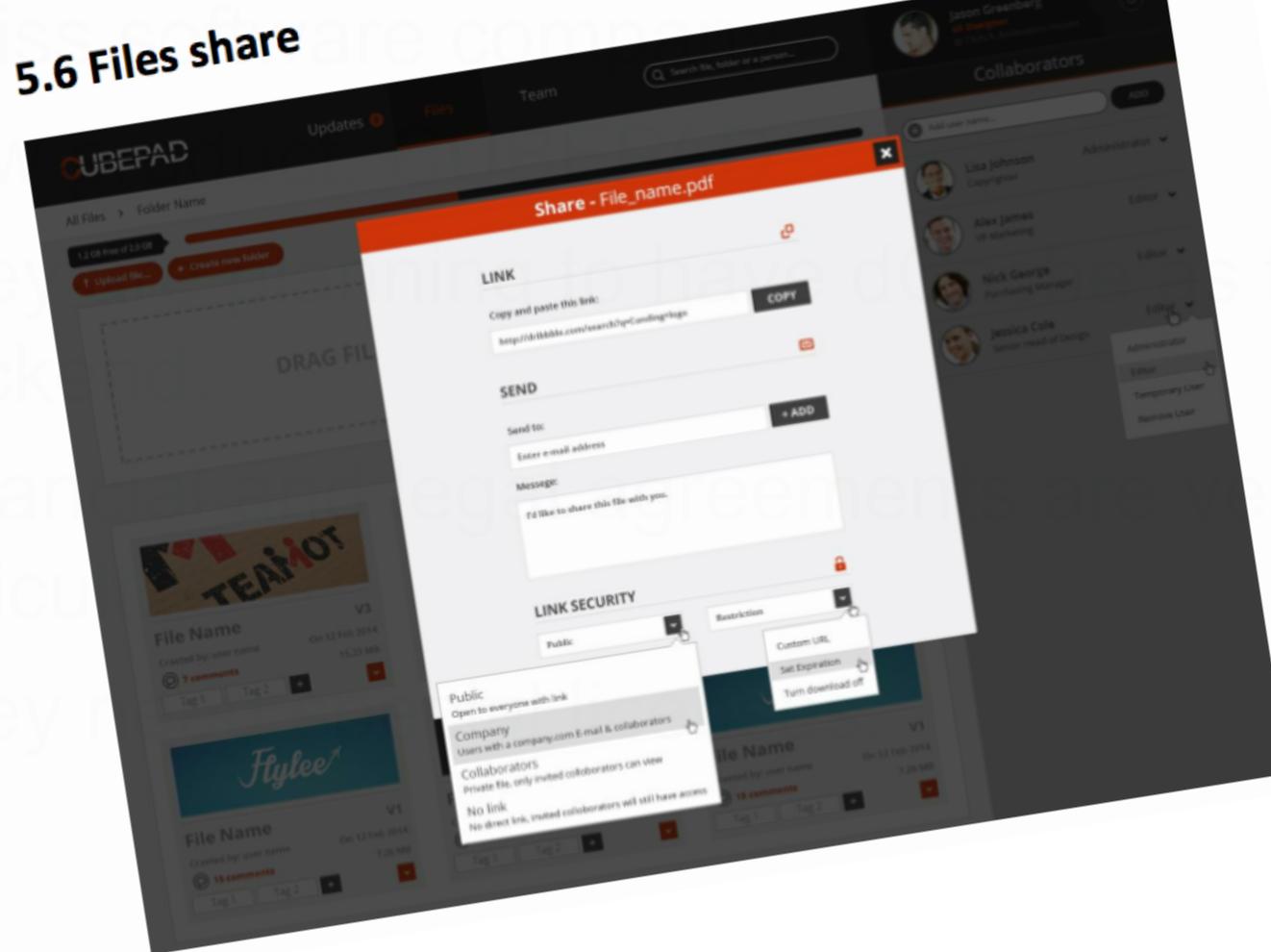


- dCache/DESY involved in some initiatives which might result in one or more H2020 proposals
 - HEP Software Collaboration
 - EU-T0 (Big data & Cloud)
 - DIRAC (possibly two proposals)
- In case you know about an upcoming proposal, where dCache would fit in, let me know. End of the day, you benefit. (e.g. as it was for EMI)

Industry Contact



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Activities (Deployments)



- FERMIlab deployments
 - Building up the CMS-T1 disk only system
 - Building a 2 Petabytes “Intensity Frontier” dCache system (Neutrino and Myon physics)
 - Evaluating NFS 4.1; helping us to fix issues.
 - Adding more dot-commands for operations like
 - Get location (CUSTODIAL, ...)
 - Get Checksum
 - Plus actions
 - Evaluating “storage federations” using the CERN DM Http Federation System (we have a presentation on the dyn. Fed.)



- Optimizing tape access for “Small Files”
 - Karstens presentation
- Cloud integration (Patricks presentation):
 - Integrating cloud semantics into dCache
 - Integrating cloud software (ownCloud) into dCache
- Fast data ingest, for DESY Photons Science
 - This is not about data rates but about “File create rates”
 - Tigran is working on this topic
 - As fast ‘file create’ often means small files, this is strongly related to the ‘Small Files for Tape’.

Activities (Development)



- Redesign of the “Resilient Mgr”
 - See Al’s presentation
- dCache plug-in mechanism extended to support the HSM interface.
 - Gerd
 - No mediate benefit. But makes it customizable (plug-ins)
- Possibly integrating SAML access to dCache.
 - Pauls presentation

Activities (with others)

- In the LSDMA, HTW Berlin student context:
 - Leonie investigates Cloud in dCache
 - Jana implements CDMI
 - Tom evaluates ‘end to end’ encrypted WebDAV client for mobile devices.
- With CERN DM and SLAC:
 - Improving xrootd support in dCache (meetings with SLAC and CERN xrootd people)
 - Small list of issues we solve step by step
 - Regular phone meetings with SLAC & CERN
 - Supporting Fabrizio's storage federation with HTTP/WebDAV.
 - Servers running at CERN and DESY (Fermilab)



- Keeping in touch with GlobusOnline folks
 - In Background: adding or fixing things you need when using GlobusOnline with dCache.
 - Let us know if you have particular issues with GO
- Involved in the EGI Federated Cloud Activities
 - Federated Identity Management
 - CMDI for Cloud Storage Access
- Federated Identity and Storage in LSDMA



Strategies



Summary

- Funding and number of people is ok.
- Development
 - Big Data, fast analysis
 - Cloud semantics
- Interesting new communities
 - Intensity frontier (FERMIlab)
 - Photon Science (here at DESY)
 - Human Brian people in Juelich
- Putting efforts to get H2020 funding
 - Would we really benefit ?



Enjoy the Workshop

further reading
www.dCache.org

