

# Open Cloud Mesh

**Peter Szegedi**

GÉANT Amsterdam

17th TF-Storage, Pisa, Italy

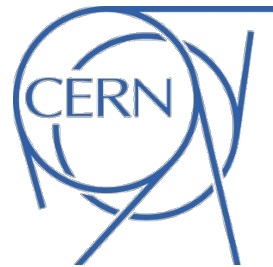
14/10/2015

- Around early 2012, TF-Storage participants started to actively look into data storage software platforms in order to provide on-premise file-based sync&share (aka. Dropbox-like) services to their constituencies.
  - Some NRENs even ventured into the development of a proof-of-concept tool called the Trusted Cloud Drive (TCD) under TERENA
- By mid 2013, ownCloud appeared to be the most promising one with a growing open-source development community behind.
- In December 2013, the GÉANT Association (formerly known as TERENA) and ownCloud Inc. made an agreement that serves to facilitate the desire of various National Research and Education Networking organisations (NRENs) to introduce services based on ownCloud technology and/or to offer the technology to their constituencies.
- As part of this collaboration effort, in January 2015, ownCloud initiated an idea (aka. OpenCloudMesh) to interconnect the individual on-premise private cloud domains at the server side in order to provide federated sharing and syncing functionality between the different administrative domains.

# GÉANT-ownCloud agreement



- More than 112.000 licenses purchased all together



Kantonsschule Zug | Gymnasium

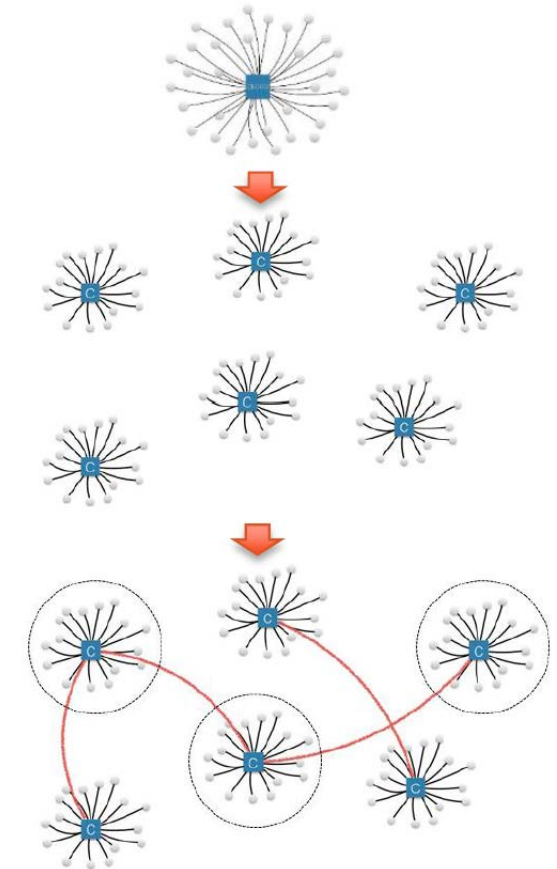
# Open Cloud Mesh (OCM) concept

- ownCloud Mesh

- ownCloud Inc. developed the first working prototype (v.0.004) of this protocol and made the full specification available as a non-public preview for the GÉANT community in August 2015.
- Project under GÉANT in order to review the code, make suggestions for the enhancements of the protocol, and pilot it between the various ownCloud-based service domains of the community (e.g., SURFdrive, SWITCHdrive, GARRbox, CERNbox, CloudStor+, etc.).

- Open Cloud Mesh

- The ultimate goal is to design and implement this protocol as an open federated sharing standard that can be implemented by different file-based sync and share services and providers.
- To achieve this, GÉANT should start engaging with other commercial partners such as PowerFolder, Pydio, Cozy, W3C and IBM as well as participate in the related IETF standardisation efforts.



## What ownCloud wants

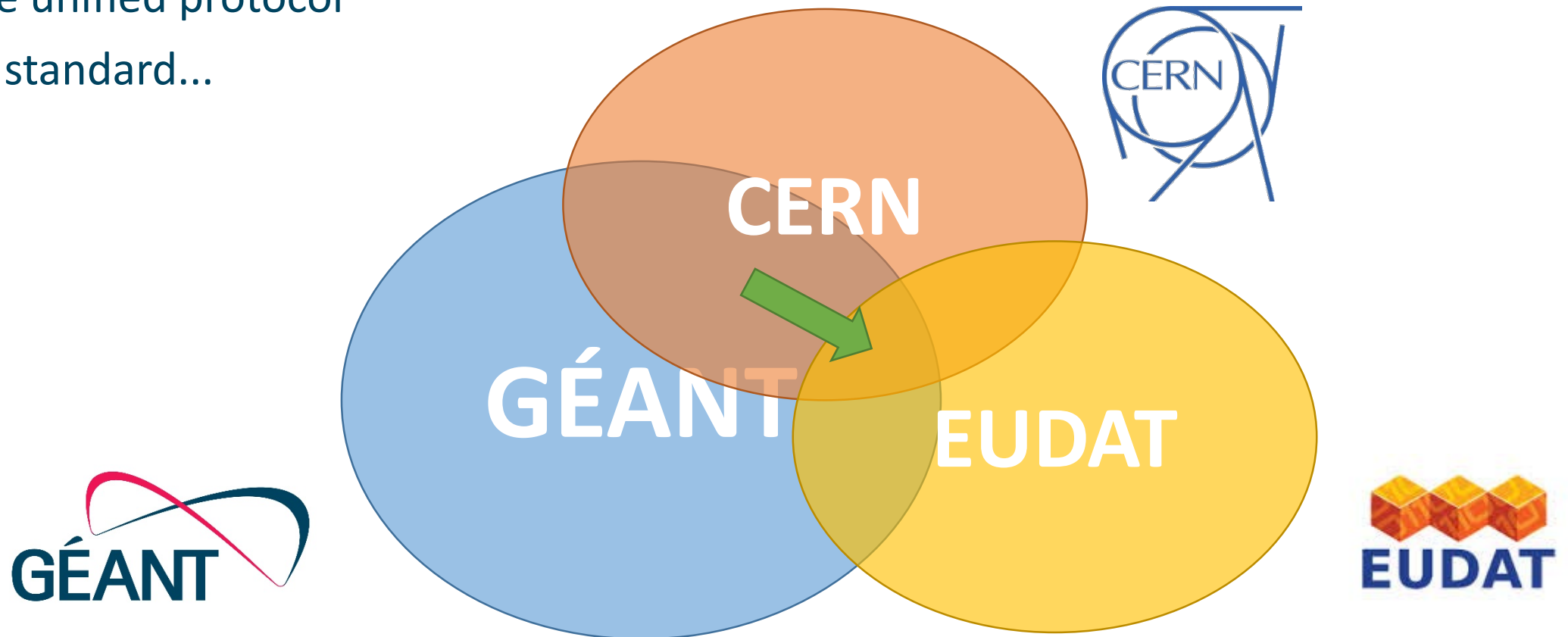
- Secure venture capitals \$\$\$
- Maintain market leadership in on-premise file-based sync&share
- More customers...

To enable  
**secure, open,  
frictionless,**  
file sharing, **everywhere**



# What we want

- Immediate benefits for our converging user communities
- Simple unified protocol
- Open standard...



# How we do it

- Project under the GÉANT umbrella co-managed by:



***Christian Schmitz, ownCloud***



***Jakub Moscicki, CERN***

***Peter Szegedi, GÉANT***

- Contributions from:

***SURFnet/SURFsara, SWITCH, AARNet, Sciebo, CESNET, DeIC, ACOnet, CSC/FUNET/EUDAT***

- Next coming OCM meeting
  - 22 October 2015 in Vienna, Austria
- CERN Workshop on sync&share
  - 18-19 January 2016 in Zurich, Switzerland
- OC Collaboration monthly calls
  - GÉANT Wiki space at <https://wiki.geant.org/x/SAD3Ag>
- OCM project <https://owncloud.com/lp/opencloudmesh/>
  - [ocm-all@terena.org](mailto:ocm-all@terena.org)





Thank you and any questions



Networks · Services · People  
[www.geant.org](http://www.geant.org)