



ET-PP

INFRA-DEV WP8 Computing and data model

WP8 chairs and task leaders

Objectives

- Real-time collaboration
- Improved access to information
- Increase efficiency & productivity
- Improve information management
- Significant cost savings

Requirements

- Accessible with ET AAI based on ETMD
- Private folders – Access control
- Public folders for files publication (pictures, videos, ...)
- Full control over the usage of the content (GDPR compliant)
- Software for working documents collaborative edition
- ... (scalable, easy user interface, good practices for folders organization, helpdesk, connection with other ET services and tools..)

File Sharing-editing system

Cloud tools options				
	CERNbox (based on OwnCloud)	B2DROP (NextCloud)	INFNcloud (based on OwnCloud)	SURF drive
Provider	CERN	Juelich	INFN	SURF
Developer	CERN	EUDAT	INFN	SURF
Plans	Free	Free Premium	Free	Premium
Key features	<ul style="list-style-type: none"> - Storage and Synchronization - File Sharing and Collaboration - Versioning and File History - Security and Authentication - Integration with CERN Services - Scientific Computing 	<ul style="list-style-type: none"> - Secure and trusted data exchange service - An easy-to-use, user-friendly synchronisation <p>The service is intended for the long-tail and still volatile data which can change and still subject to active research</p>	<ul style="list-style-type: none"> - Open source - Federation of existing Cloud infrastructures for both compute and data. - Consistent authentication and authorization technologies and policies at all Cloud levels - Dynamic orchestration of resources via the INDIGO PaaS Orchestrator 	<ul style="list-style-type: none"> - Online share-storage environment with one view on the data - Safe and structured data sharing - One view on data - Data stewardship

File Sharing-editing system

		Cloud tools			
Price and capacity features	Features	CERNbox (based on OwnCloud)	B2DROP (NextCloud)	INFNcloud (based on OwnCloud)	SURF drive
	Credentials	CERN computing account	B2DROP account	Dynamic OIDC/Indico IAM or local	Own trusted institutional account
	Free plan	yes	yes	yes	no
	Price plans	-	premium	-	yes
	Quota/user	1 TB	Up to 20 GB (100-200GB premium)	200 GB	500 GB (limited)
	Max file size	10 GB up to 50 GB	10 GB	10 GB	50 GB
	Max. num. users	unlimited	Up to 5000 (depending on the plan)	Hundreds	Up to 750

File Sharing-editing system

		Cloud tools			
Features		CERNbox (based on OwnCloud)	B2DROP (NextCloud)	INFNcloud (based on OwnCloud)	SURF drive
Synchronisation features	Workflow management	Yes	Yes	Yes	Yes
	Unlimited file size uploads	Defined by the project	Defined by the project	-	-
	Full-featured desktop app	Yes	Yes	-	Yes
	Sync in place (auto-sync)	Yes (next months)	Yes	-	Yes
	Desktop integration	Yes	Yes	-	Yes

File Sharing-editing system

		Cloud tools			
Features		CERNbox (based on OwnCloud)	B2DROP (NextCloud)	INFNcloud (based on Owncloud)	SURF drive
Sharing features	Public Sharing	Yes	Yes	Yes	Yes
	Private Sharing	Yes	Yes	Yes	Yes
	Auditing and reporting notifications	Yes (next months)	Yes	-	Yes
	File connection status	Yes	Yes	Yes	Yes
	File store locally	Yes	Yes	-	Yes
	Backup restore system	Yes (next months)	Yes	Yes	Yes
	Full control access	Yes	Yes	Yes	Yes

File Sharing-editing system

		Cloud tools			
Collaboration tools	Features	CERNbox (based on OwnCloud)	B2DROP (NextCloud)	INFNcloud (based on Owncloud)	SURF drive
	Mail integration	Yes	Yes	Yes	Yes
	Chat	Yes	Yes	Yes	Yes
	Helpdesk	Yes	Yes	Yes	Yes
	Calendar	Yes	Yes	Yes	Yes
	Contacts	Yes	Yes	-	Yes

Discussion points

We urgently need to answer:

- Which is the EiB-WP8 recommended choice? Do we miss some information to choose?
- Short-term (we need it now) or long-term solution (we wait until we have a stable solution)
- Who will decide which tool to adopt?
- Who will deploy de service and operate it?
- Who/how to get funding for maintenance and licenses?
- Who will provide the AAI integration?

AOB?
Thank you!

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