
symplectic
solutions for higher education
Symplectic Repository Tools
For DSpace and Fedora

Motivation: Commercial

- Integrate our publications management system (Symplectic Elements) with DSpace and Fedora
- Provide support for full repository item lifecycle management
- Meet the specific requirements of our clients who are also DSpace or Fedora users

Motivation: Community

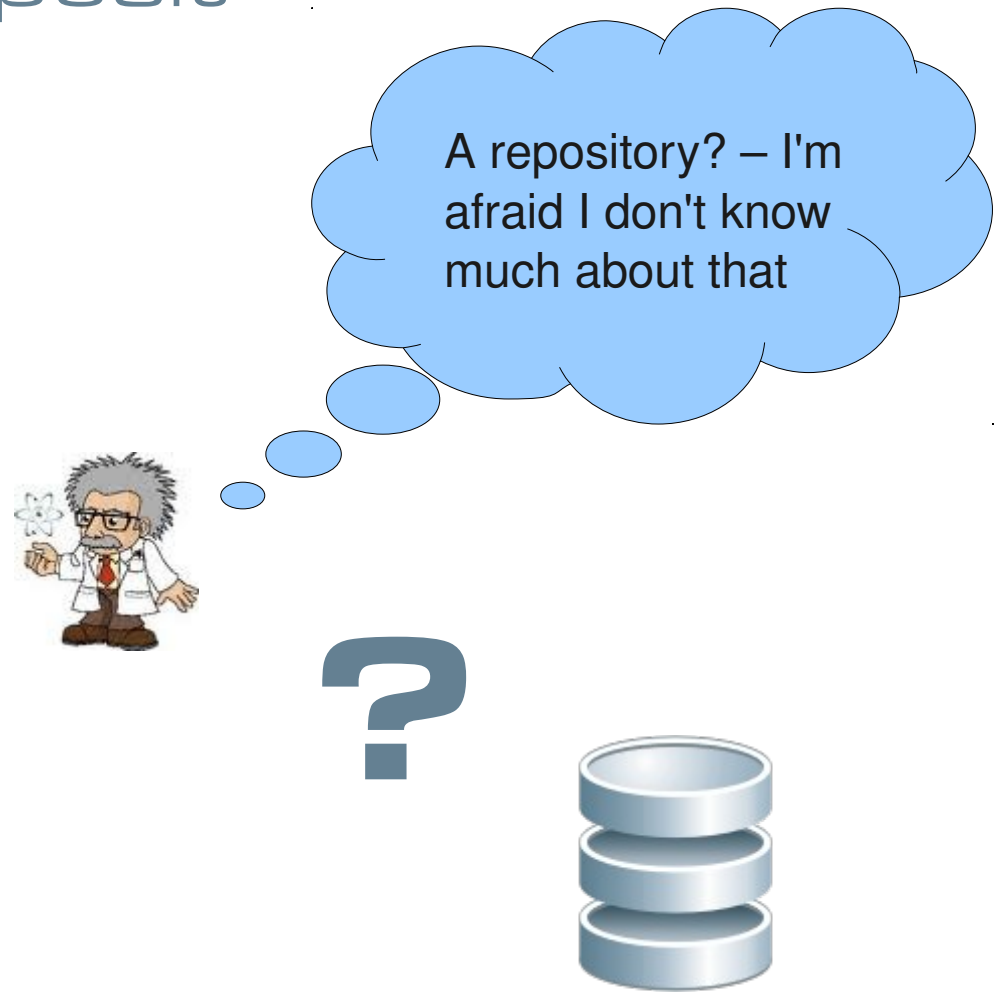
- Current deposit client approaches require that content be stored outside the repository in an organised and well managed way prior to deposit;

  but this is what repositories are designed for!

- Current deposit client approaches require the end user to assert that a work is "finished";

  but this may not always be possible!

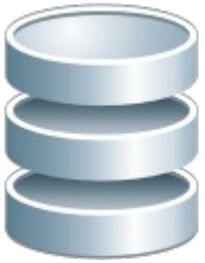
4 barriers to deposit



4 barriers to deposit

?

It's not part of my day-to-day working practices, so why would I remember to use it?



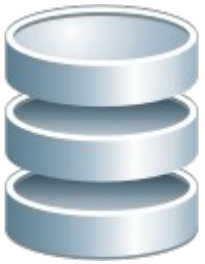
The existence and role of the repository

4 Barriers to deposit

I have to fill in these metadata forms? This is taking too long...

Yet another system to remember to use

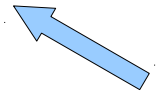
?



The existence and role of the repository

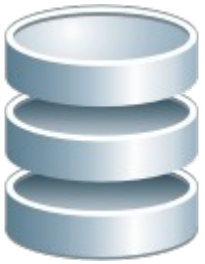
4 barriers to deposit

Yet another system to remember to use



These copyright conditions make me uncertain what the right thing to do is ...

Manual metadata entry



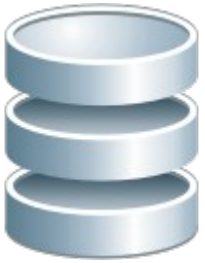
The existence and role of the repository

4 barriers to deposit

Yet another system to remember to use

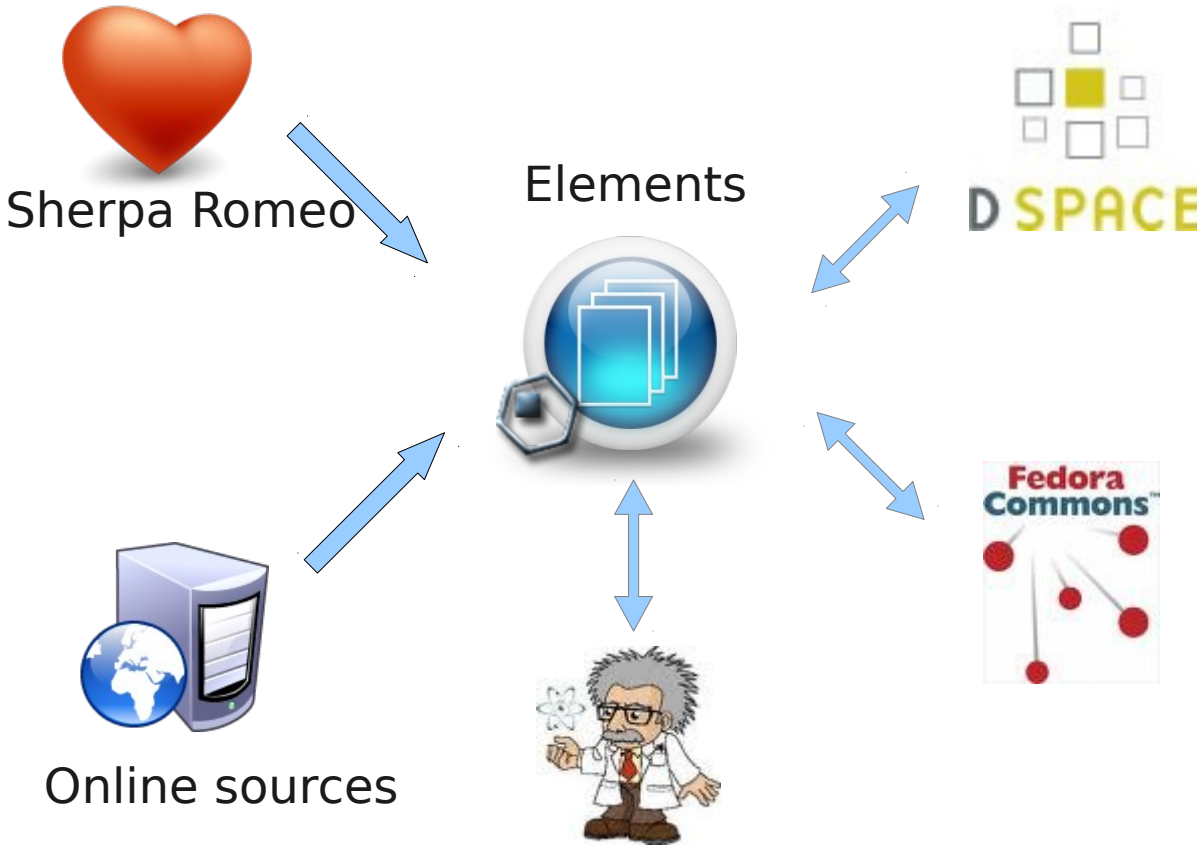
Manual metadata entry

Lack of clarity around copyright

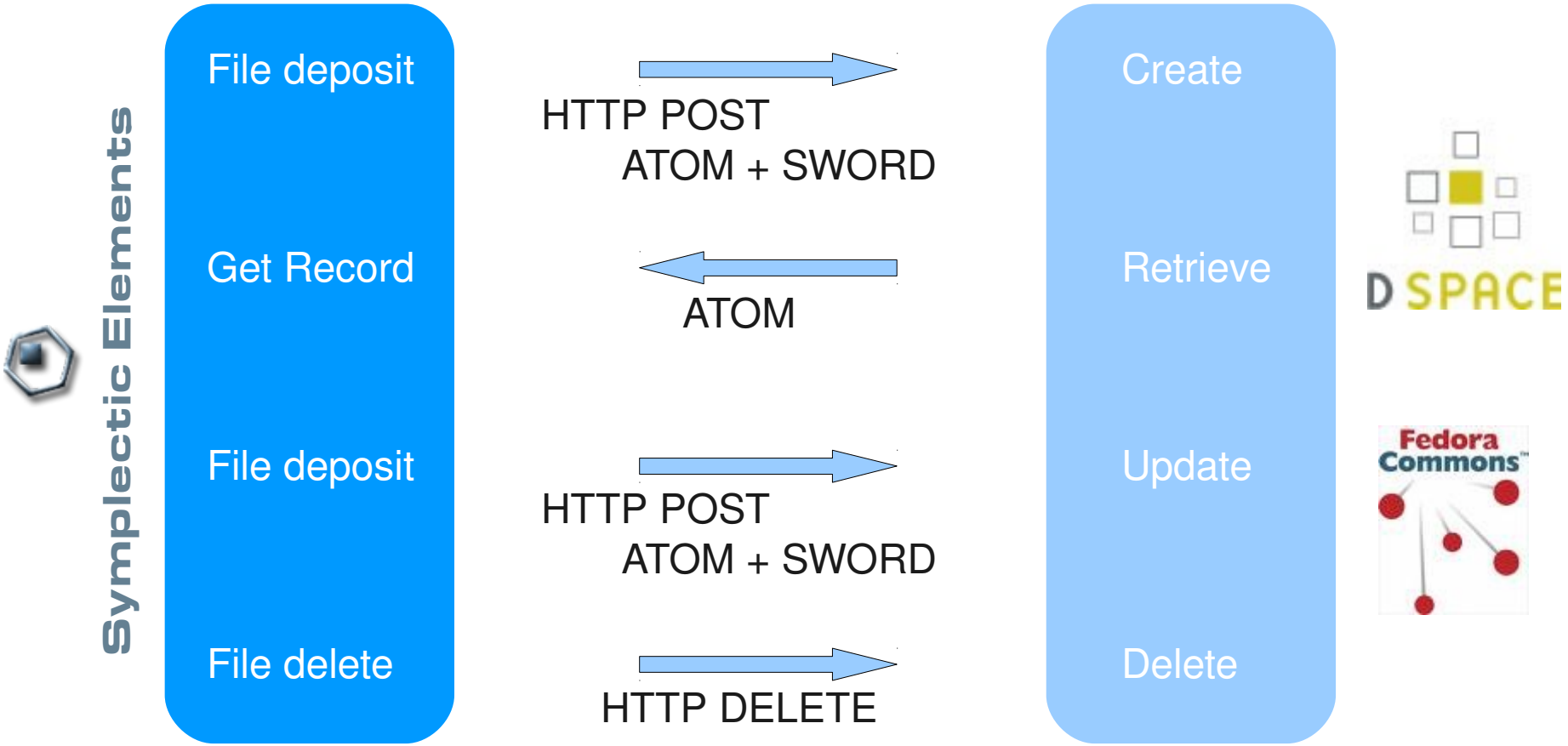


The existence and role of the repository

Symplectic Elements with Repository Tools



CRUD with AtomPub + SWORD



Dynamic to Static Data Models

Elements	ATOM	DSpace	Fedora
-	Collection	Community/Collection	-
Publication	Feed	Item	Object
-	-	Bundle	-
Metadata Record	Entry	Bitstream	Datastream

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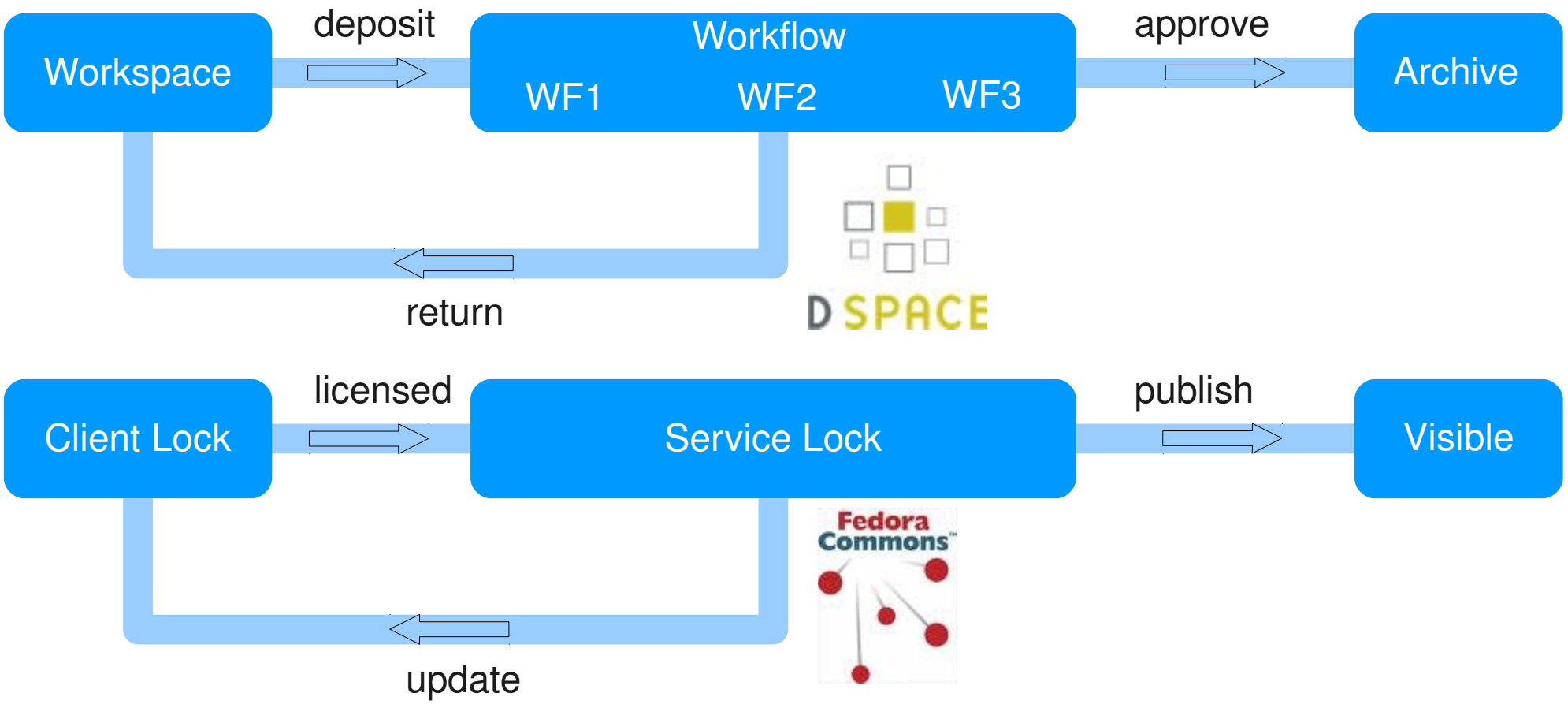
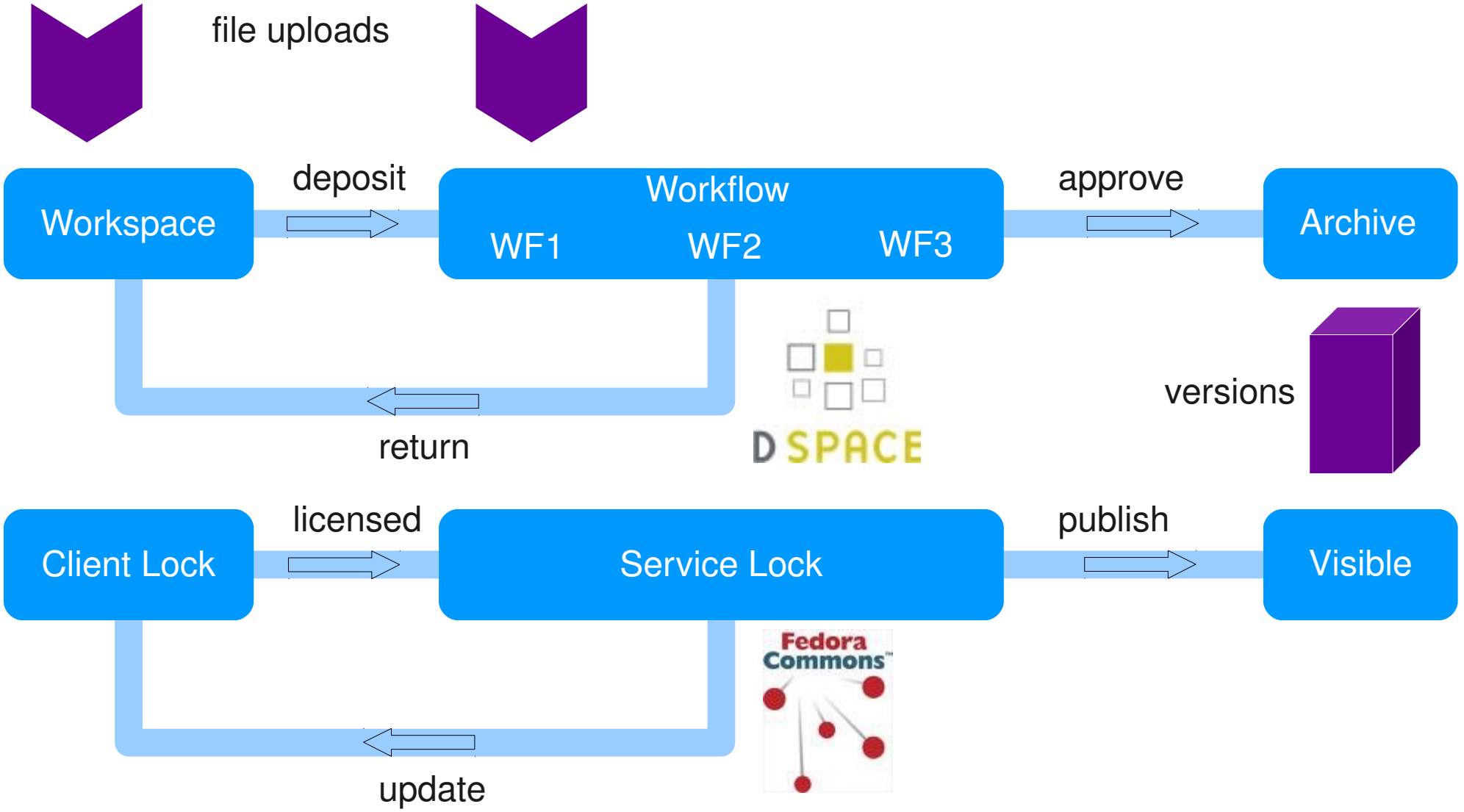
Lifecycle Workflows



Lifecycle Workflows



Implementation considerations

- ? Are metadata updates archivally significant?
- ? Are file deletes on archived files 'rapid takedown' requests?
- ? Does the repository actually require rights to store the metadata?
- ? Is it possible to completely remove content files?
- ? When should new versions of eprints be created?

Walkthrough

[see video]

4 barriers to deposit ... removed?

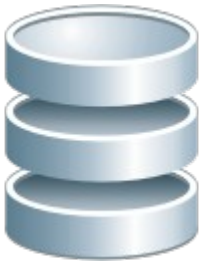
Clear guidance from Romeo in UI

Lack of clarity around copyright

Yet another system to remember to use

Integrated into a widely used institutional system

No knowledge required



The existence and role of the repository

Automatically acquired

Manual metadata entry

Conclusions

- Seamless repository integration with Symplectic Elements (a research management system)
- Uses open standards (HTTP, AtomPub, SWORD)
- Feeding back the results of our work to SWORD
- Reduces barriers to deposit, increasing throughput to the repository
- More accurately reflects requirements for the constantly changing state of the information environment

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http://www.symplectic.co.uk/products/repository-tools.html