



**EUDAT Conference Service Showcase and Overview**  
**B2SAFE update**  
*14 September 2022*

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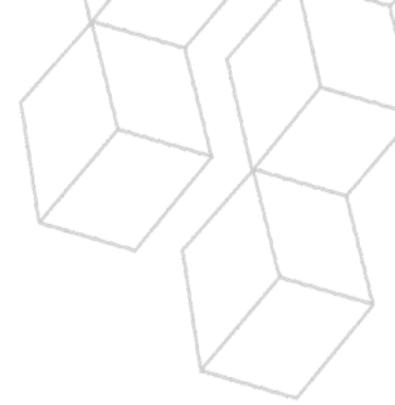
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## **B2SAFE**

robust, safe and highly available service which allows community and departmental repositories to implement data management policies on their research data across different geographical and administrative domains in a trustworthy manner.

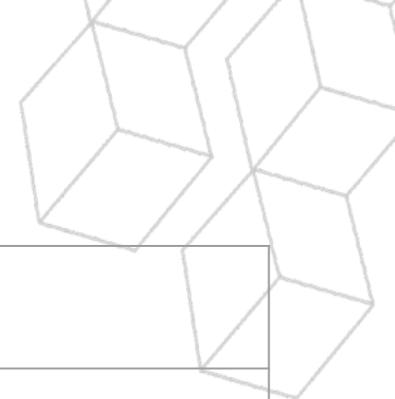


## Updates and last published artifacts

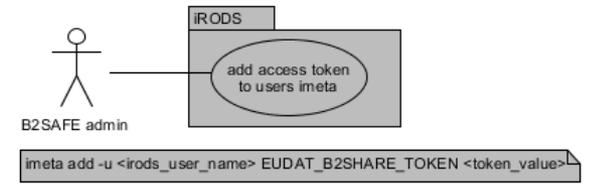
| Component                               | URL Link  | Last update |
|---|---|-------------|
| <b>B2SAFE core</b>                      | <a href="https://gitlab.eudat.eu/b2safe">https://gitlab.eudat.eu/b2safe</a>   | 1 year ago  |
| <b>B2SAFE core packages</b>             | <a href="https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/packages">https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/packages</a>     | 1 month ago |
| <b>B2SAFE core documentation</b>        | <a href="https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/wikis/home">https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/wikis/home</a> | 1 month ago |
| <b>Last published artifacts version</b> | <b>Irods-eudat-b2safe-4.3.2-1070.noarch.rpm, irods-eudat-b2safe-4.4.0-1074.noarch.rpm</b>                                     | 1 month ago |

## Supported platforms

**Centos 7 with iRODS 4.2.3 (under testing), 4.2.10 and 4.2.11**

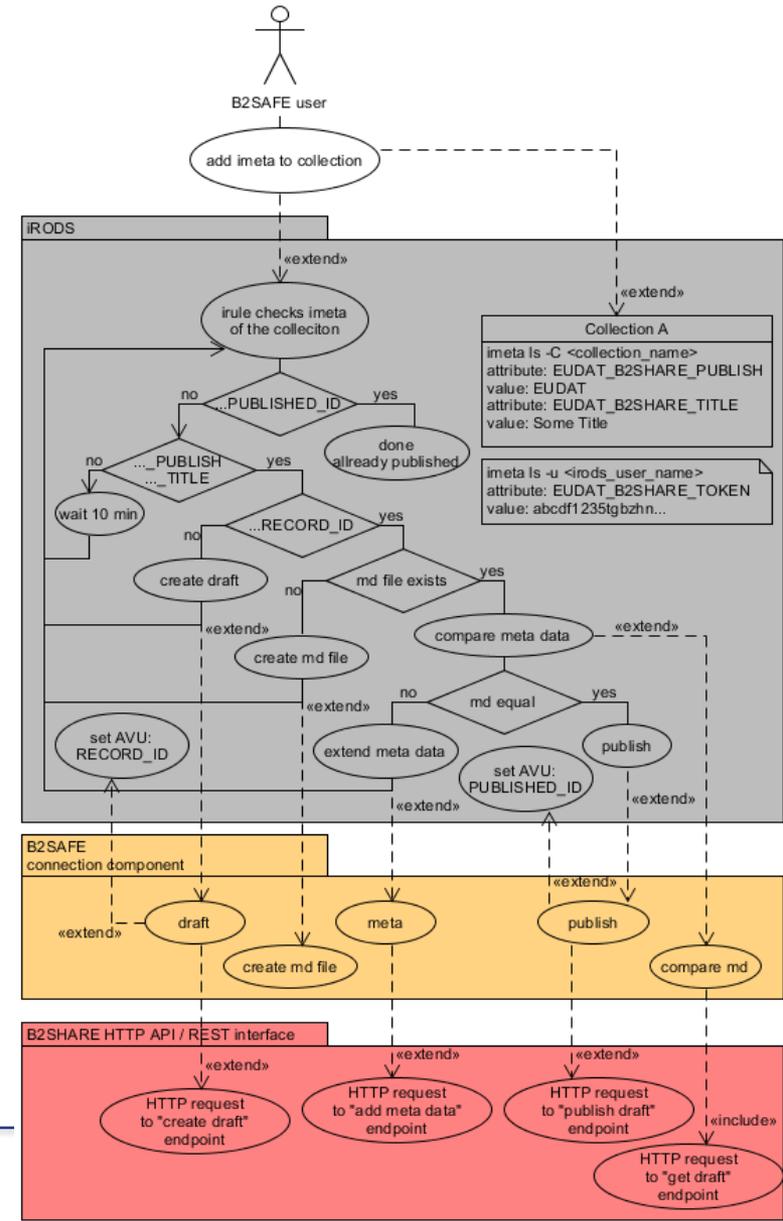


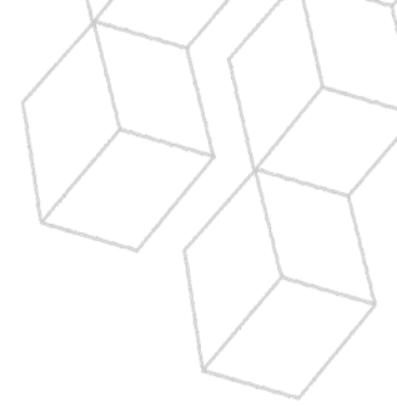
|   |   |
|---|---|
| Completed B2SAFE porting to <b>Python 3</b> + some <b>code refactoring</b>  |   |
| Enabled custom Python rules in B2SAFE <b>server config</b>  |   |
| New package repository deployed   |   |
| Updated B2SAFE <b>configuration</b> on the <b>Gitlab</b> and pruned old branches from the git   | <a href="https://gitlab.eudat.eu/">https://gitlab.eudat.eu/</a>   |
| Replaced old code introducing <b>PyHandle</b> library, <b>B2HANDLE APIs</b> not used anymore  | <a href="https://github.com/EUDAT-B2HANDLE/PYHANDLE">https://github.com/EUDAT-B2HANDLE/PYHANDLE</a>   |
| C <b>msi-persistent-id</b> library has been discarded   | <a href="https://gitlab.eudat.eu/b2safe/msi-persistent-id">https://gitlab.eudat.eu/b2safe/msi-persistent-id</a>   |
| Complete development and integration of B2SAFE and B2SHARE old <b>iBridge</b> component for publication of data to the <b>B2SHARE</b> | <a href="https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/blob/master/use_cases_publish_to_b2share.png">https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/blob/master/use_cases_publish_to_b2share.png</a> |
| <b>Testing</b> , testing, testing... (using B2SAFE <b>test suite</b> ). Also tested new produced <b>rpms</b> ..                       |   |
| Created brand new B2SAFE <b>documentation</b>   | <a href="https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/wikis/home">https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/wikis/home</a>   |



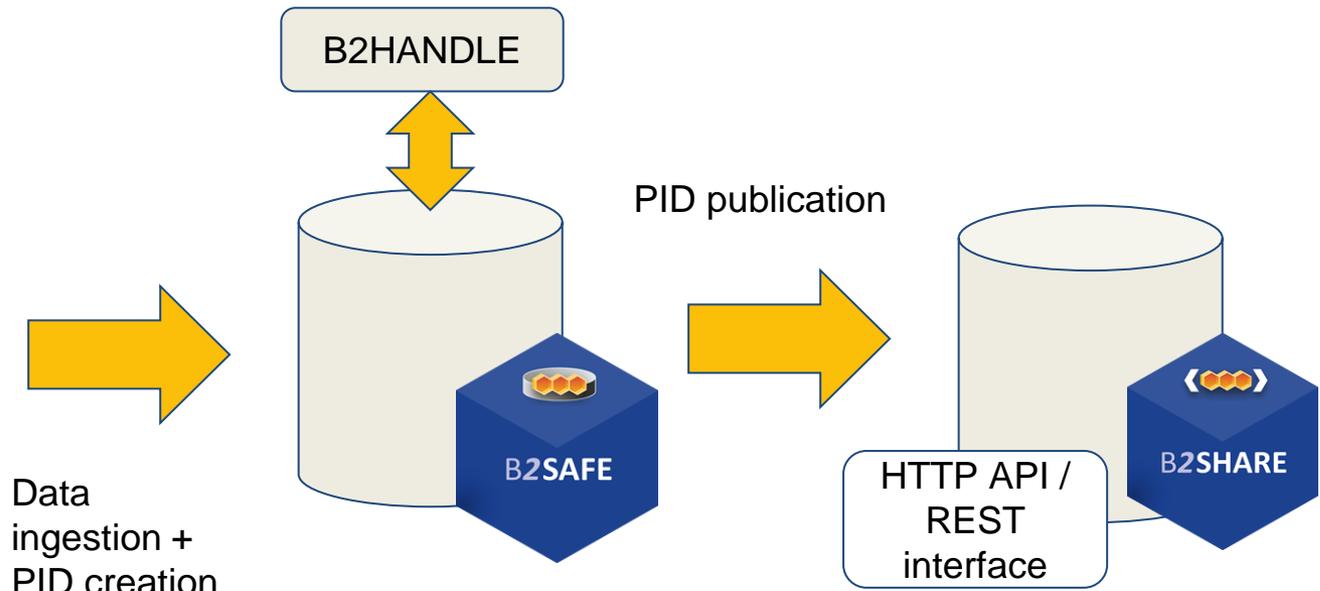
## The B2SAFE-B2SHARE integration component

[https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/blob/master/use\\_cases/publish\\_to\\_b2share.png](https://gitlab.eudat.eu/b2safe/B2SAFE-core/-/blob/master/use_cases/publish_to_b2share.png)

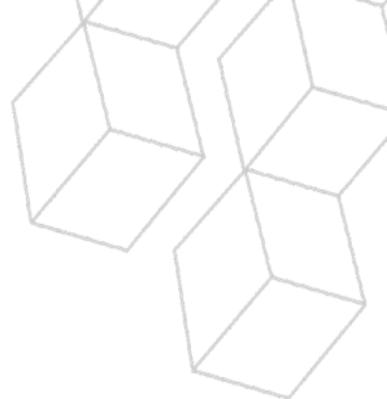




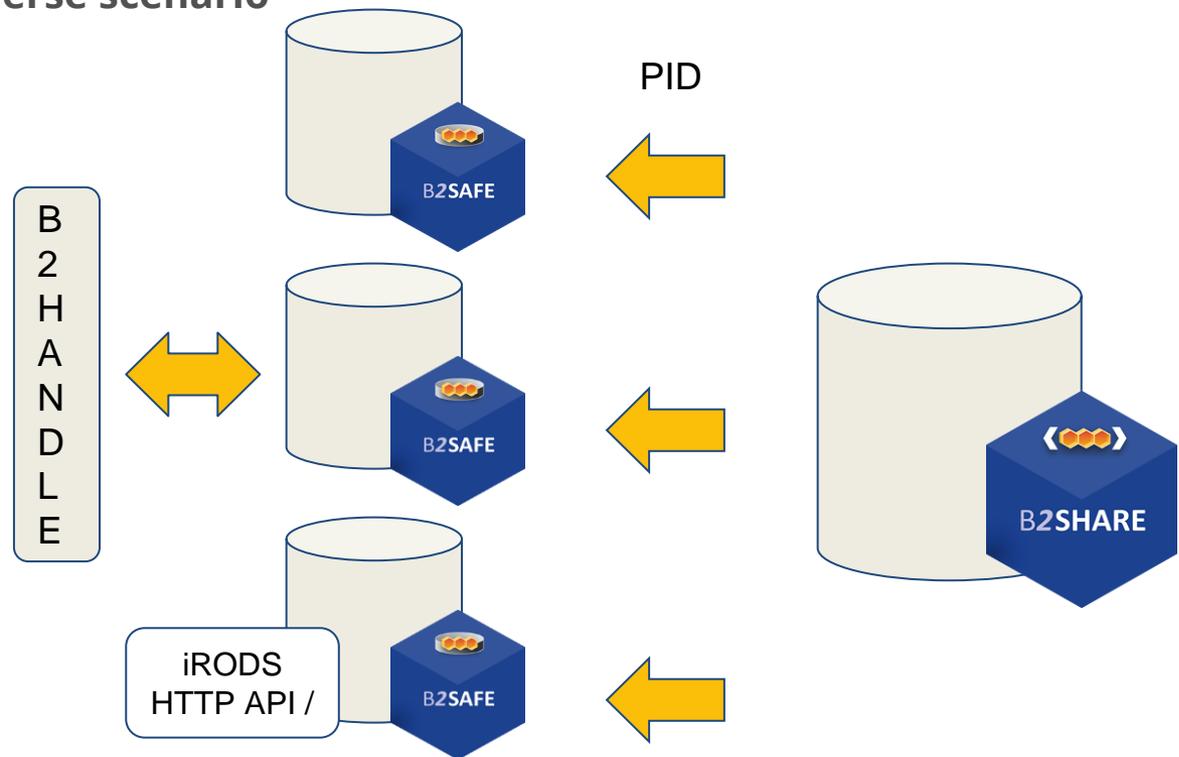
### Today this is the situation



Create draft, add metadata, get draft endpoint, publish draft



### The inverse scenario



Select B2SAFE endpoint, create draft, add metadata, publish draft

Any information (B2SHARE title, B2SHARE token) should be added a-priori by the user?



## Next steps

1. Meeting with **B2SHARE developers** to check the status of **B2SAFE-B2SHARE iBridge** and to briefly discuss about future development (done)
2. Need to check what has been done until now works fine, than we verify (CSC):
  - a. The interaction between software components works (required **imeta** Attribute-Value-Unit triples (**AVUs**) are produced, **md files** created, etc..)
  - b. We have to look at B2SHARE **logs** (CSC), in order to check:
    - i. Draft creation during **metadata** add
    - ii. **PID** added and **records** published
3. Start running some **statistics** gathering scripts and check they works with B2SHARE records associated with B2SAFE files and PIDs
  - a. There are some minor differences about how attributes are managed, e.g. file size
4. Schedule a new meeting and plan next activities
5. CSC will try to setup a test instance of B2SAFE using last **Docker images** or **packages** available from **Gitlab registry** ([SURF image registry not available anymore](#))
  - a. CINECA can notify CSC if any **test instance** for B2SAFE is available
6. Start planning **full duplex integration** of B2SAFE and B2SHARE including publishing PIDs as well as metadata from B2SHARE to B2SAFE (SURF, CINECA, CSC, MPCDF)

## Next supported platforms

**iRODS 4.3.0 with Centos 7, Centos 8 will be supported in iRODS?, last iRODS version released can be included as well ([https://docs.irods.org/4.3.0/release notes/](https://docs.irods.org/4.3.0/release_notes/))**



## And also..

1. Add service monitoring (SVNMON) for the B2SAFE instance on local sites and at CINECA also
  - a. Soon as possible...

**How the needed effort level could be provided?**