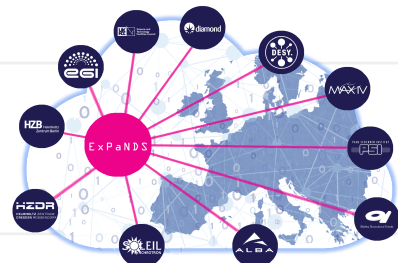


Search API for data catalogues

Sustainability sheet



Backend API that enables the creation of websites, apps or services to **search data catalogues** of the participating PaN facilities. Plugins for SciCat and ICAT community data catalogues are also available to facilitate the **deployment** of the search API at the facility level.



	<p>Target audiences</p> <ul style="list-style-type: none"> - Software engineers for data catalogues - Data managers - Data consumers 	<p>Benefits</p> <ul style="list-style-type: none"> - Rather than performing the same search in each and every PaN data repository the search API enables the creation of a final website/app/service that can become a one-stop-shop, thus facilitating its use and saving time to researchers - The plugins for the data catalogues help facility staff deploy the endpoint at their facility
	<p>Accessibility</p> <p>Source code of the:</p> <ul style="list-style-type: none"> - Federated API (1) - SciCat search-API plugin (2) - ICAT plugin (3) <p>Feedback mechanism</p> <p>GitHub issue tracking for the federated API (4), SciCat (5) and ICAT (6) plugins</p>	<p>Documentation</p> <ul style="list-style-type: none"> - Federated API service (7) - Search API (8) - SciCat plugin (9) - ICAT plugin (10) <p>Licence</p> <p>SciCat: BSD-2-Clause licence (11) ICAT: Apache License 2.0 (12)</p>
	<p>Competitors</p> <p>Not known at present</p> <p>Technology readiness</p> <p>Prototype, used by the PaNOSC search portal (13)</p> <p>EOSC integration status</p> <p>N/A - what is integrated in EOSC are the services built on top</p>	



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Plans and conditions for long-term sustainability

- The future OSCARS project will consolidate the federated search-API, enhancing its functionalities to become the entry point to the **PaN data commons**
- The federated search-API is hosted at ESS, which is participating in the **FAIR data management MoU** discussions
- SciCat and ICAT plugins will be maintained by their relative community as long as they are used, with a strong dependency on the federated search uptake
- Each member of the community adopting the search-API will continue to host its own instance
- To keep the federated search useful, the metadata exposed by each facility needs to be of good quality and follow the community standards; the sustainability of the federated search is thus highly linked to the maintenance of a **PaN metadata framework**



Exploitability potential

- Other PaN projects wanting to have a rich federated PaN search, e.g. [DAPHNE4NFDI](#) (14)
- Other PaN facilities who want to have their data in the PaN data commons

Conditions to increase exploitability

- Add embargoed data
- Create a mentoring program to onboard new facilities, e.g. in the frame of OSCARS

Links

- (1) <https://github.com/panosc-eu/panosc-federated-search-service>
- (2) <https://github.com/SciCatProject/panosc-search-api>
- (3) <https://github.com/ral-facilities/datagateway-api>
- (4) <https://github.com/panosc-eu/panosc-federated-search-service/issues>
- (5) <https://github.com/SciCatProject/panosc-search-api/issues>
- (6) <https://github.com/ral-facilities/datagateway-api/issues>
- (7) <https://github.com/panosc-eu/panosc-federated-search-service/blob/master/README.md>
- (8) <https://github.com/panosc-eu/search-api/tree/master/doc>
- (9) <https://github.com/SciCatProject/panosc-search-api/blob/master/README.md>
- (10) <https://github.com/ral-facilities/datagateway-api/blob/main/README.md>
- (11) <https://github.com/SciCatProject/panosc-search-api/blob/master/LICENSE>
- (12) <https://github.com/ral-facilities/datagateway-api/blob/main/LICENSE>
- (13) <https://data.panosc.eu/>
- (14) <https://www.daphne4nfdi.de/english/index.php>

