B2DROP is a secure and trusted data exchange service for researchers and scientists to keep their research data synchronized and up to date and to exchange with other researchers.

B2DROP allows users to:
- Store and exchange data with colleagues and team members.
- Synchronize multiple versions of data.
- Ensure automatic desktop synchronization of large files.

Users can:
- Define with whom to exchange data, for how long and how.
- Receive up to 20GB of storage space for research data.
- Access and manage permissions to files from any device and any location.

The service is simple to use and open to any researchers, scientists, communities who wish to synchronize and exchange data with one or multiple users. B2DROP will be fully integrated with the B2 suite of services to allow user-friendly data sharing.

How can EUDAT’s services help you?

EUDAT offers common data services which support research communities and individuals through a network connecting general-purpose data centres and community-specific data repositories. These shared services and storage resources are distributed across 15 European nations and data is stored alongside some of Europe’s most powerful supercomputers.

The B2 Service Suite

- B2DROP: synchronize and exchange research data
- B2SHARE: store and share research data
- B2SAFE: manage data and optimize access
- B2STAGE: transfer data to HPC workspaces for processing
- B2FIND: find collections of scientific data quickly and easily

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EUDAT B2 Service Suite
Research Data Services, Expertise and Technology Solutions

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A user-friendly, reliable and trustworthy way for researchers, scientific communities and citizen scientists to store and share small-scale research data from diverse contexts.

**B2SHARE** allows users to:
- **Store**: facilitating research data storage.
- **Preserve**: guaranteeing long-term persistence of data.
- **Share**: allowing data, results or ideas to be shared worldwide.

**B2SHARE features**
- Integrated with the EUDAT collaborative data infrastructure.
- Free upload and registration of stable research data.
- Data assigned a permanent identifier, which can be retracted to the data owner.
- Data owner defines access policy.
- Community-specific metadata extensions and user interfaces.
- Openly accessible and harvestable metadata.
- Representative state transfer application programming interface (REST API) for integration with community sites.
- Data integrity ensured by checksum during data ingest.
- Professionally managed storage service — no need to worry about hardware or network.
- EUDAT user support.
- Monitoring of availability and use.

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**B2SAFE** is a solution which:
- Provides an abstraction layer which virtualizes large-scale data resources.
- Guards against data loss in long-term archiving and preservation.
- Optimizes access for users from different regions.
- Brings data closer to powerful computers for compute-intensive analysis.

**B2SAFE features**
- Based on the execution of auditable data policy rules and the use of persistent identifiers (PIDs).
- Respects the rights of the data owners to define the access rights for their data and to decide how and when it is made publicly referenceable.
- Data policies are centrally managed via a Data Policy Manager, and the policy rules are implemented and enforced by site-local rule engines.
- Able to aggregate data from different disciplines into a storage system of trustworthy and capable data service providers.
- Support for repository packages (e.g. DSpace, FEDORA) and a lightweight HTTP-based solution.
- Secure access to remote HPC services in parallel.
- Collaboration with other infrastructures, such as the European Grid Infrastructure (EGI) and Partner- ship for Advanced Computing in Europe (PRACE).
- Documentation, educational material and service helpdesk.

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**B2FIND** allows users to:
- Find collections of scientific data quickly and easily, irrespective of their origin, discipline or community.
- Get quick overviews of available data.
- Browse through collections using standardized facets.

**B2FIND features**
- Based on a comprehensive joint catalogue of EUDAT services and external metadata.
- Metadata is mapped onto standardized facets.
- Supports faceted, geospatial and temporal metadata searches.
- Allows users to search and browse datasets via keyword searches.
- Results displayed in user-friendly format and listed in order of relevance.
- Access to the scientific data objects is given through references provided in the metadata.
- Initially available for communities in the EUDAT registered domain of data.
- EUDAT will then extend the service to other interested and reliable data and metadata providers.

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**B2SHARE**
- Store and Share Research Data

**B2SAFE**
- Replicate Research Data Safely

**B2FIND**
- Find Research Data

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**Digital Object Registration**
- 2-in-1 Single Domain Registration

**B2SAFE**
- Data Policy Manager

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**B2FIND**
- Detailed Metadata

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**B2SHARE**
- b2share.eudat.eu

**B2SAFE**
- b2safe.eudat.eu

**B2FIND**
- b2find.eudat.eu