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DSPACE 6

INSTITUTIONAL REPOSITORIES

CHARACTERISTICS AND TECHNICAL
REQUIREMENTS

ABOUT THIS DOCUMENT

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EXECUTIVE SUMMARY

DSpace is a software that aims to collect, manage and disseminate the intellectual output of a research institution.

DSpace repositories accept all forms of digital material, including text, image, video and audio files, being able to manage content such as eBooks, articles, technical reports, working papers, conference presentations, theses, data sets, computer programs, models and visual simulations, etc.

This document aims to describe the main features and characteristics of DSpace, and also to outline the technical requirements necessary for the correct deployment of the software in a production environment.

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COLLECT, MANAGE AND PROVIDE ACCESS TO THE INTELLECTUAL MEMORY OF YOUR RESEARCH INSTITUTION

DSPACE

DSpace is a software that aims to collect, manage and disseminate the intellectual output of a research institution.

DSpace repositories accept all forms of digital material, including text, image, video and audio files, being able to manage content such as eBooks, articles, technical reports, working papers, conference presentations, theses, data sets, computer programs, models and visual simulations, etc.

This software allows institutions to:

- Capture and describe digital documents according to an adaptable workflow
- Distribute digital documents over the Web, allowing users to search and obtain copies
- Organise information in communities and collections in way that reflects the structure of the organisation
- Disseminate information using standard protocoles for metadata harvesting, promoting access and the creation of value added services

DSpace repositories contribute to an increase of impact of scientific research, promoting the visibility and accessibility to scientific publications, as well as facilitating the management of an institution's intellectual memory.

DSpace is the software of choice for academic, non-profit and commercial organizations building digital repositories. It has no licensing costs and can be completely customized to fit the needs of any organization.

With an ever-growing community of developers, committed to continuously expanding and improving the software, each DSpace installation benefits from the next.

No licensing costs

DSpace is an open-source solution developed by HP in collaboration with the MIT.

This is a free software, without any licensing costs, that allows you to manage information in any digital format (e.g. text documents, audio, video, spreadsheets, data sets, etc.).

Highly configurable

DSpace is highly configurable allowing it to be parameterized to meet the needs of any institution.

Among other aspects, this solution allows the customization of its visual appearance, the definition of metadata elements to be used, configuration of deposit workflows, multiple languages, etc.

Statistics and reporting

DSpace can provide detailed statistics on the number of downloads and visualisations of deposited documents.

Statistics are organized in multiple dimensions and can be consulted by author, document, collection or community.

Integration with 3rd party systems

This solution can be integrated with other platforms belonging to the national scientific system, namely: curricula management platforms, theses and dissertations deposit systems, ORCID, CRIS systems, among others.

The largest community of users in the world

DSpace is implemented in over 1500 institutions across the world. It is predominantly used by university libraries to archive and promote the scientific output of its institution.

There are many institutions that use DSpace for other purposes, for example, as a repository for research data, photos, museum collections, newspapers, etc.

TECHNICAL REQUIREMENTS

DSpace requires a minimum of two computers to operate: a server and a workstation.

The server is responsible for hosting all the information produced by the users, as well as supporting all business logic. The workstation is used by end-users to access the software.

The following sections describe the minimum requirements necessary for the correct operation of the software on the various computers.

SERVER

RAM	4 GB 8 GB recommend
CPU	2.0 Ghz Dual-Core or superior
HDD	20 GB Depends on the number of records and their growth rate
Operating system	Ubuntu Server 16.04 LTS or compatible No licensing costs
Software	Docker engine No licensing costs
Network	100 Mbit/s or superior 1 Gbit/s recommended

WORKSTATION

RAM	4 GB
CPU	Intel Dual-Core or superior
Monitor	1280x768 pixels or superior
Operating system	Windows/Linux/MacOS
Software	Web browser
Network	100 Mbit/s or superior 1 Gbit/s recommended

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KEEP SOLUTIONS

KEEP SOLUTIONS is a company whose mission is to provide advanced solutions for information management and digital preservation.

Our approach consists in providing software and services to allow our customers to make a more efficient management of their information assets.

The company started its activity in 2008, having acquired the status of academic spin-off of the University of Minho, for being a business initiative with strong bonds with research centres and departments from this institution.

Our clients are mostly found in the public sector, more specifically in the areas related to archives, libraries and museums.

We invest in the continuous development of innovative solutions. To support that, we remain active in the production of scientific knowledge while engaging in large-scale R&D projects in cooperation with national and international institutions.