

## Local and Interoperable Digital Libraries of Theses and Dissertations: The New Brazilian Scenario

**Introduction.** It is true that the advances in information technology have brought about significant changes in the production processes, and the dissemination and the use of the results of scientific research. The impact of these changes also led to a direct impact in the dissemination of the thesis or dissertation typology and so, despite being commonly called as "gray literature", may still be considered to belong to the class of scientific objects. Thus, these documents now where stored in its own information systems, mostly specific digital libraries for theses and dissertations, allowing the community access, particularly to the full text. Under the influence of the Networked Digital Library of Theses and Dissertations (NDLTD), in Brazil, the Brazilian Institute of Information Science and Technology (IBICT) developed the Brazilian Digital Library of Theses and Dissertations (BDTD), making it available to the community in 2002 and keeping its services up to the present day. The BDTD figures today among the largest information systems around the world (It has the amount of 300,000 itens in full text) whose purpose is the dissemination of theses and dissertations. The mechanisms used by Brazilian institutions for teaching and research for participation in BDTD is the management and local storage software of theses and dissertations. This software is termed as Publishing System of Theses and Dissertations (TEDE) developed by IBICT and passed on to teaching and research institutions. In the final year of 2014, a new version of TEDE (called TEDE2) was developed and launched by the Institute, based on a customization of software DSpace 4.2, in order to keep up with new technological tools used for disseminating scientific output of institutions, and according to the conditions of open access to scientific information. Thus, the TEDE underwent a complete restructuring of its source code, adding new features and forms management, and converging technological actions to the use of DSpace with the technological support to local libraries of theses and dissertations. **Objective.** This study aims to present the restructuring of Publishing System of Theses and Dissertations (TEDE) and its integration with other information systems and the description of the new features acquired, due to change of technological paradigm. **Methodology.** For the particular goal range, this research is characterized as descriptive document. It is understood that descriptive studies aim to present ideas in a systematic way in order to detail the characteristics of the object of interest analysis which is the case the of new TEDE software. **Results.** Since the interoperability between systems, and collaborative development, it is the essential prerequisites for the management of digital content, it was decided to update the TEDE using as a platform the DSpace software in its latest stable version (4.2). The project can be accessed on <https://github.com/ibict-br/TEDE>. The key features addest the original DSpace project were (<http://bit.ly/TEDE2keyfeatures>):

1. Visual identity: A oferta de um tema, baseado na interface JSPUI;
2. System batch import via user interface;
3. Autocomplete dc.description.citation field, according to relevant standards;

4. Presentation logo with link to the curriculum lattes (a well known brasilian database of researchers) next to the author's names, supervisor, co-supervisor and committee members;
5. Pre-visualization of documents using Google Docs streaming in a suspense window (reveal mode);
6. Suggestions on the type windows "note" that appear when filling out the submission form;
7. Option sharing of searches and items on social networks Twiter, Facebook and Google+;
8. Export of metadata items in Endnote and BibTex format;
9. Autocomplete dc.rights and dc.date.available fields, and customizations of embargo step of bitstreams;
10. Autocomplete the dc.format field according the type of bitstream uploaded;
11. Drop-down calendar added to fill the fields of the type date;
12. Metadata language fill option for fields of type text and onebox;
13. Graphical representation of the access statistics report.

In addition, we developed an export plugin from the legacy project (<https://github.com/ibict-br/TEDE-legado/tree/exportador>) to the new platform based on DSpace, via the batch import tool. **Final Remarks.** It is observed that the customization of open source DSpace for the dissemination of theses and dissertations, which resulted updating the TEDE software, implied different factors aimed at adapting the tool to meet the peculiarities of this epecific document type.

## Bibliography

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