Metadata Crosswalk for a Museum Collection in a Thematic Digital Library

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The BDArt Digital Library hosted by the Thematic Repository at the University of Porto (Repositório Temático da U.Porto), aggregates documents from the Library and the Archive collections belonging to the Fine Arts School of the University of U.Porto (Faculdade de Belas Artes da U.Porto, FBAUP). This School has a museum collection containing a significant set of world-class objects managed with distinct processes and tools from those currently used in libraries and archives elsewhere. Interoperability between the collections of the Archive, the Library and the Museum is necessary, because many works allocated to different collections are closely related and can only be seen as a whole by cross collection search functionalities. The goal of this work, the first of its kind to be developed at the University of Porto (U.Porto), is to integrate the museum collection with archives and library collections in the repository and to use an open source technology (DSpace). Our experiment involved the selection of appropriate representations of the objects and the definition of a metadata crosswalk between the original metadata standards and qualified Dublin Core. As a result, we created the BDA Museum Collection as a BDART sub-community using an XML export procedure which we expect to be helpful in future developments of other museum collections in the Thematic Repository at U.Porto.

KEYWORDS Digital Museum, DSpace, Metadata Crosswalk, Interoperability and Information integration, Repositório Temático da U. Porto

Digital libraries around the world are being used as repositories of cultural heritage, providing access to digital versions of documents, objects and artifacts of recognized value. Following this lead, the University of Porto (U.Porto) maintains a "Thematic Repository", aimed at aggregating digital libraries' collections, which often arise in the context of the institution and are designed as solutions for integrated access to digital assets, contributing therefore to the dissemination and preservation of collections of unique value held by the University.

The Thematic Repository is supported on the DSpace¹ open-source platform and uses qualified Dublin Core² (DC) descriptors. One of the collections presented in the Thematic Repository is the BDArt - Arts Digital Library, which includes documents from the Library and the Historical Archive collections originated from the Fine Arts School (FBAUP). The developers of this collection were successful in reusing metadata imported from other information systems within the U.Porto institutional context and created a metadata crosswalk from their original metadata standard format (MARCXML and ISAD (G), respectively) to the DC qualified and exported it using an XML format file³. FBAUP also retains an important Museum Collection. Interoperability between this collection, the Library and the Historical Archive is a frequent need. Our main objective was to achieve this interoperability by integrating the Museum collection in the existing BDArt, providing a single search point for students and researchers while adding visibility to this valuable collection (Barroso, I., Azevedo, M., Ribeiro, C., 2009). In order to reach our goal, it was necessary to develop a metadata crosswalk between all original metadata standards, including ICOM/CIDOC present in the in arte museum system (a proprietary museum collection management platform used in several Portuguese museums) and the target metadata format (DC) of the Thematic Repository. The following sections detail the requirements and advantages of the integration proposed in this work and the steps taken while developing the metadata crosswalk.

¹ http://www.dspace.org/

² http://dublincore.org/

³ http://www.w3.org/XML

INTEGRATING THE MUSEUM IN THE BDART COLLECTION

FBAUP holds an important collection of historic documents from the 15th to the 19th century belonging to the Library, the Historical Archive and the Museum collections, which are managed by different information systems. The Library has a bibliographic catalogue which uses the ALEPH system⁴ though without access to full text documents; the Historical Archive is not available to online research and the Museum collection is managed by the *in* arte software package. Since the development of the BDArt in 2009, Archive and Library collections have become integrated and are searchable from a single access point, bridging an important gap for students and researchers who frequently needed to go both to the Library and the Archive to access their documentation.

The Library collection was mapped from MARCXML to Qualified Dublin Core (APPENDIX A) and the Historical Archive documents were inserted manually following ISAD (G) rules and in accordance with Qualified Dublin Core (APPENDIX B).

The integration of Library and Archive documents allowed users not only to have free access to digital objects from the FBAUP collection but, most importantly, it also provided them with a single way of retrieving documents by subject, author, artist or time period.

FBAUP also holds a valuable Museum collection with works dating from the 15th century to the present, making the Faculty a singular holder of a remarkable heritage in painting, sculpture and drawing. Some works by Leonardo da Vinci, Allegrini, Aspertini and many other mannerists stand out, as well as a set of 16th century engravings. Interoperability between collections from the Archive, the Library and the Museum was essential because many works allocated to different collections are closely related and can only be seen as a whole by cross collection search functionalities. This need for interoperability led to the integration of the Museum's digital collection as a sub-community in the structure of the existing BDArt.

The Museum digital collection in the BDArt is arranged in collections, keeping in mind the intended views for its potential users and leaving room for the addition of new records. The

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⁴ http://catalogo.up.pt/

Museum metadata integration in BDArt provided access and visibility to the Museum's vast collection while enabling the full integration of services (Library, Historical Archive and Museum) at search level. With complete integration a researcher that needs information about "Silva Porto", a well-known Portuguese painter, can retrieve with a simple search in the BDArt flyers, books, news and exhibition catalogues available in the Library, his personal file, the minutes from meetings, letters and course registrations located in the Historical Archive; and drawings and paintings from the Museum collection. See Figure 1 for a sample of a results list.

Figure 1: Keyword search "Silva Porto"



METADATA CROSSWALK FROM IN ARTE TO DSPACE

FBAUP's Museum objects are managed using the *in* arte software package for museum object's description, which has more than three hundred metadata fields based on the recommendations of "The International Guidelines for Museum Object Information: the CIDOC Information Categories" by the International Council of Museums (ICOM, 2014). The *in* arte descriptors include historical data regarding the object's origins and author, the identification of materials and techniques, the dimensions and current conservation state, as well as the date and place of all exhibitions in which the object took part, its known bibliographic references and a photographic representation (Hartmann, 2011). Due to this great number of specific fields, we

had to define a subset of metadata fields which could provide an appropriate representation of a museum object in the digital library.

The need to integrate the BDA Museum Collection with other existing collections in the BDArt, providing thus an integrated search point, led to the development of a specific metadata crosswalk, which took into consideration not only the field equivalence in ICOM/CIDOC format (present in *in* arte) and qualified Dublin Core (present in DSpace), but also the fields already in use in the remaining collections of the BDArt, as illustrated in Table 1. Crosswalks were necessary in order to allow the integration of different metadata standards whenever digital materials from different origins (such as archives, museums and libraries) had been described using different standards (Godby, C. J., Young, J. A., & Childress, E., 2004).

The first step in developing the crosswalk was the verification of the actual use in FBAUP's Museum for the selected fields. It is common even with well-established standards to have a general use for the descriptors and then fine tune their meaning. For instance, we noticed that the "Incorporation (provenance)" metadata field, which in ICOM/CIDOC is destined for information about geographic provenance of the objects, was seldom used here. Instead, this information was available in the "History" and "Notes" fields, thus forcing us to map all three metadata fields for the BDA Museum Collection.

Table 1: Metadata Integration Schema in BDArt

Collection	Original System	Metadata source format	Target metadata format	Search Interface
BDA Archive	Manual control	ISAD (G)	DC Qualified	Thematic Repository (DSpace)
BDA Library	Aleph	UNIMARC	DC Qualified	Thematic Repository (DSpace)
BDA Museum	in arte	ICOM/CIDOC	DC Qualified	Thematic Repository (DSpace)

The next step was to identify the corresponding metadata fields in qualified Dublin Core already in use in the Thematic Repository. In the cases where we lacked equivalent fields for our specific typologies, we resorted to the complete base of Metadata Terms from the Dublin Core Metadata Initiative (DCMI, 2011). This helped us finding appropriate metadata fields or obtaining instructions on how to create new qualified Dublin Core metadata fields based on the controlled vocabulary terms. For instance, it was necessary to create a new metadata *sub-community* field to show which sub-community in the BDArt a record belonged to, e.g. to the Archive, the Library or the Museum. In this process, we favoured a general description as much as possible, as our main goal was the integration between the collections in the BDArt whilst not compromising the specificity required for the representation of a museum collection. Table 2 contains an excerpt from the developed crosswalk; the whole mapping is in Appendix C.

Table 2: The final Metadata Crosswalk (shortcut)

UNIMARC field	UNIMARC subfield	Library (UNIMARC labels)	Historical Archive ISAD (G)	Museum (ICOM/CIDOC)	Dublin Core Qualified	Search Interface (DSpace)
700 710 701 711	^a ^b ^c ^d ^e ^f	Primary Intellectual Responsibility	Name of Creators	Author	dc.contributor. author	Author/Crea tor
702	^a ^b ^c ^d ^e ^f ^4	Secondary Intellectual Responsibility	Other Contributors	field without correspondence	dc.contributor. other	Other Contributors
545	^a	Section Title	field without correspondence	Collection(Type)	dc.collection	Collections

Once the metadata crosswalk was defined, it served as basis for the development of an export procedure using an XML standard format which, once created, allowed us to export metadata fields from an *in* arte collection to DSpace. This required some professional assistance from the *in* arte software team for the configuration of existing scripts. For instance, SQL queries on the *in* arte database were designed to assign the target collection for each record in the BDA Museum Collection. The exported XML file (APPENDIX D) was imported into the DSpace platform and, during this process, some inconsistencies in the information provided by the *in* arte metadata fields were identified. A critical case which illustrates the need for adjustments on the data from a museum collection is the metadata field *Date* (used in *dc.date.issued*); most of

the *in* arte records do not have values for this field, as this information is often unknown for museum objects. However, the date field is used in a search index and as a browsing classifier and needs to be filled in. In order to remedy this situation, we decided to automatically introduce the approximate chronology ([17 -?], e.g.), based on the information retrieved from the *chronological scope* field, for all cases where the *date field* could not be filled in.

The whole process resulted in the creation of the BDA Museum Collection, which is currently available online in the U.Porto Thematic Repository as a sub-community in the structure previously defined for BDArt, and its complete integration at search and browsing level with the other collections (http://repositorio-tematico.up.pt/handle/10405/814).

CONCLUSIONS AND ONGOING WORK

The boundaries between library, archive and museum objects are not clearly defined and the organization of digital collections contributes to blurring them further. Digital collections built from existing assets are a good ground for interoperability experiments and the task of assembling representations and metadata from library, archives and museum objects into a single collection can be challenging.

We addressed the problem by including an existing museum collection into the BDArt at FBAUP, where library and archive documents had been previously imported and organized. The experience with the harmonization of library and archival collections was used in the preparation of the BDA Museum Collection, but new issues had to be dealt with. The description of museum objects has different assumptions from those in libraries and archives: metadata must account for the unique nature of the objects, provide information on their context of creation and history, and help managing its curation and exhibition.

For a Digital Library with the characteristics of BDArt, where collections are of different nature and originate in different sources, crosswalks that extend interoperability are essential, so that the object can be accessible through related collections and its history can be understood as a

whole. Our project is the first developed at U.Porto which aims at integrating a museum collection with archives and library collections using an open source technology (DSpace). Interoperability was our main goal and every effort was made to crosswalk the different metadata formats using standards-based vocabularies.

As the existing museum collection has valuable assets, their inclusion in the BDArt provides added interest to the physical library and makes cross-collection search trivial. Moreover, considering that the Thematic Repository at U.Porto, where BDArt is supported, is making its collections suitable to be exported to Europeana, the addition of the BDA Museum Collection, which has a high potential for international visibility, can be regarded as the first step towards this contribution. Europeana is an aggregation platform providing uniform access to a valuable part of European cultural heritage content. Using the metadata resources from cultural institutions such as libraries, museums and archives, users and application developers can currently explore more than 36 million objects provided by over 3,000 institutions in 35 countries.

We expect the inclusion of all of the museum collection now that the process of metadata import has been streamlined and all the interoperability effort has helped the Museum in creating more quality metadata (for this experience we imported around 500 records). This process also offers the advantage of automatically adding new records through *in* arte to the BDArt. In addition, we expect this crosswalk to be used in future initiatives of other museum collections integrated in the Thematic Repository at U. Porto, since all museums use the *in* arte system.

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ICOM: International Council of Museums: The World Museum Community (ICOM). (2011). Retrieved from http://icom.museum

APPENDIX A. MARCXML TO QUALIFIED DUBLIN CORE DESCRIPTORS

Document type - Pamphlet

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</datafield>
                </datafield>
<datafield tag="101" ind1="0" ind2=" ">
<subfield code="a">por</subfield>
</datafield tag="102" ind1=" " ind2=" ">
<subfield code="a">PT</subfield>
<subfield code="a">PT</subfield>
<subfield code="b">Porto</subfield>
</datafield tag="100" ind1="" ind2=" ">
</datafield tag="200" ind1="1" ind2=" "</datafield>
</datafield tag="200" ind1="1" ind2=" "</datafield tag="200" ind1="1" ind2=" "</d>
               </datafield>
             </datafield tag="215" ind1=" " ind2=" ";
<subfield code="a">1 fol.</subfield>
<subfield code="c">i1.</subfield>
<subfield code="d">30 cm</subfield>
</datafield tage="245" ind4=" " ind4=" ind4=" " ind4=" " ind4=" " ind4=" 

<datafield tag="545" ind1="1" ind2=" ">
<subfield code="a">FOL.BIB</subfield>
</datafield>

               </datafield>
<datafield tag="600" ind1=" " ind2="0">
<subfield code="a">Silva Porto</subfield>
<subfield code="f">1850-1893</subfield>
<subfield code="x">Exposições</subfield>
<subfield code="y">Porto, Portugal</subfield>
               <\datafield\
</datafield tag="606" ind1=" " ind2=" ">
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<subfield code="a">>rintura portuguesa</subfield>
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<
                 </datafield>
               </datafield tag="801" ind1=" " ind2="0">
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APPENDIX B. ISAD (G) to DUBLIN CORE

DUBLIN CORE	ISAD(G)	DSPACE ITEM RECORD
dc.identifier	Reference code	Identifier
dc.identifier.other	without correspondence	Call number
dc.title	Title	Title
dc.title.alternative	Alternative title	Alternative title
dc.contributor.author	Name of creator(s)	Author (s)
dc.contributor.other	without correspondence	Contribution
dc.periodOfTime	Dates of accumulation	Date of accrual
dc.date.issued	Date(s)	Issue date
dc.date.modified	without correspondence	Modified date
dc.provenance	Administrative / Biographical History	Provenance
dc.description	Level of description	Description
do.description	Notes area	Description
dc.description.abstract	Scope and content	Abstract
dc.format	Extent of the unit description	Format
dc.format.medium	Physical characteristics and technical requirements	Physical medium
dc.relation	Related units of description	Related information
dc.relation.ispartofseries	Series	Series
dc.relation.isreferencedby	Document title/item	Document / piece
dc.relation.uri	without correspondence	Document link
dc.rights	Conditions of access and use area	Rights
dc.subject	without correspondence	Subject
dc.language.iso	Language/scripts of material	Language
dc.type	without correspondence	Document type

APPENDIX C. Metadata crosswalk

	101		011	010		318	215 230	215		330	207 300 305 307 316 317 327		210			545	702	711 700 710 701	702 712	333			UNIMARC FIELD	Complete Me
	^a		вv	ev		۸۵	^d	^a		^a	^a		^d ^h			^a	nal nbl ncl ndl nel nfl n4	val vpl vcl vdl vel vt	^a ^b ^c ^d ^e ^f	^al			UNIMARC SUBFIELD	tadata Crosswalk between the different original me
	Language of the Item		ISSN International Standard Serial Number	ISBN International Standard Book Number		Action Note	Physical Description Electronic Resource Characteristics	Physical Description		Summary or Abstract	Material Specif Areas Serials-Numbering General Notes Notes to Edition and Bibliographic History Notes to Physical Description Note Relating to the Copy in Hand Provenance Note Contents Note Dissertation (Thesis) Note		Publication, Distribution, etc.			Section Title	Secondary Intellectual Responsibility	Primary Intellectual Responsibility	Secondary Intellectual Responsibility	Intended Audience Note			LIBRARY (UNIMARC LABELS)	Complete Metadata Crosswalk between the different original metadata format involved in BDArt collection (MARCXML, ICOM/CIDOC and ISAD(G)) to the target metadata format Dublin Core and how they are presented in the search interface DSpace. Organized by Dublin Core Qualified Descriptors
Dates of Accumulation	Language / scripts of material	without correspondence			Reference Code	Physical characteristics and technical requirements		Extent of the unit of description		Scope and Content	Level of Description Notes area	without correspondence	Date(s)				without correspondence	Name of Creator(s)					HISTORICAL ARCHIVE ISAD	COM/CIDOC and ISAD(G)) to to
					Inventory number	Condition	Measures(Type; Unit of measure; Values)	Techniques(Type; Notes); Material(Type)	Exhibitions(Title; Place; Initial Date; Ending Date)		Description		Chronology(Initial Date; Final Date)	Production(Place); School; Style	Chronology(Contextual)	Collection(Type)		Author)	Incorporation(Type)	MUSEUM (ICOM/CIDOC)	ne target metadata format Du
dc.periodOfTime	dc.language.iso	dc.identifier.other	dc.identifier.issn	dc.identifier.isbn	dc.identifier	dc.format.medium	dc.format.extent	dc.format	dc.event	dc.description.abstract	dc.description	dc.date.modified	dc.date.issued	dc.coverage.spatial	dc.coverage.temporal	dc.collection	dc.contributor.other	dc.contributor.author	dc.contributor.advisor	dc.audience	dc.accrual.periodicity	dc.accrual.method	DUBLIN CORE Qualified	ublin Core and how they are p
Date of Accrual	Language	Call Number	NSSI	ISBN	Identifier	Physical Medium	Size or Duration	Format	Exhibitions	Abstract	Description	Modified Date	Issued Date	Geographical Scope	Chronological Scope	Collections	Contributor(s)	Author (s)	Contributor(s)	Audience	Date of Incorporation	Incorporation	Search Interface DSPACE	resented in the search

UNIMARC FIELD	UNIMARC SUBFIELD	LIBRARY (UNIMARC LABELS)	HISTORICAL ARCHIVE ISAD (G)	MUSEUM (ICOM/CIDOC)	DUBLIN CORE Qualified	Search Interface DSPACE
			Administrative / Biographical History; Notes; History Incorporation (Provenance)	dc.provenance	Provenance
210	va vc ve vg	Publication, Distribution, etc.			dc.publisher	Publisher
				Dissertation (Title; Author; Editor; Type); Magazines(Title; Author; Editor; Type)	dc.references	Bibliographic references
			Related units of description		dc.relation	Related Information
121	اها ۱۹۰ مر	Supplement			dc.relation.haspart	Article/ Chapter/Suplement
161 163	x, dv hv hv ev kv ev hv hv ev ev ev ev e	Piece Level			dc.relation.ispartof	Magazine / Book
			Series		dc.relation.ispartofseries	Serie
			Document Title / Item		dc.relation.isreferencedby	Document/Part
130	^a ^t ^v h^ h^ h^ h	Continues			dc.relation.replaces	Former Title
140	va vt vv	Continued by			dc.relation.isreplacedby	New Title
310	^a	Notes Pertaining to Binding and Availability	Conditions of Access and Use Rights(Description) Area		dc.rights	Rights
				Copyright Holder	ler	Copyright Holder
001	^1	Record Identifier			dc.source.uri	Catalogue Link
500 501	^a ^b ^c ^d ^e ^f ^f ^t ^x ^y ^z	Personal Name Used as Subject Corporate Body Name used as Subject	without correspondence		dc.subject	Subject
506 507	^a ^j ^x ^y ^z ^a ^j ^x ^y ^z	Topical Name Used as Subject Geographical Name used as Subject		Subject		
				Inserted matter (marks and stamping; registration number)	dc.text	Stamp / Inscriptions
200	^a ^e ^d	Title and Statement of Responsibility	Title	Title / Designation	dc.title	Title
304 518	۸a	Notes Pertaining to Title and Statement of Responsibility Title in Standard Modern Spelling	Alternative Title	Designations	dc.title.alternative	Alternative Title
345	Λc	Acquisition Information Note	without correspondence	Category	dc.type	Document Type

CAPTION

Not Applied Applied there's no field in ISAD (G) for DC Descriptor

APPENDIX D. Example of a XML export file

XML

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<?xml version="1.0" encoding="UTF-8" ?>
  <dublin core schema="dc">
  <dcvalue element="title" qualifier="none">Desenho\Estátua</dcvalue>
  <dcvalue element="subject" qualifier="none">Desenho\Estátua\Figura jovem</dcvalue>
  <dcvalue element="subject" qualifier="none">Tirador de espinhos</dcvalue>
  <dcvalue element="contributor" qualifier="author">Ferreira, José de Oliveira</dcvalue>
  <dcvalue element="provenance" qualifier="none">Provavelmenete é uma prova do 4º ou
  5.º ano do Curso de Desenho Histórico.</devalue>
  <dcvalue element="provenance" qualifier="none">Academia Portuense de Belas Artes</dcvalue>
  <dcvalue element="identifier" qualifier="none">99.Des.1270</dcvalue>
  <dcvalue element="coverage" qualifier="temporal">Século XIX / XX</dcvalue>
  <dcvalue element="date" qualifier="issued">1898 - 1903 </dcvalue>
  <dcvalue element="type" qualifier="none">Desenho</dcvalue>
  <dcvalue element="format" qualifier="none">Carvão\sobre papel</dcvalue>
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                                                               610
                                                                              [Margem
                                                                                          lateral
                                                                      mm
esquerda]</dcvalue>
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Porto</dcvalue>
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  <dcvalue element="identifier" qualifier="other">Gabinete de Desenho - gaveta 35</dcvalue>
  <dcvalue element="subcommunity" qualifier="none">BDA Museu</dcvalue>
</dublin core>
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