The UNIMARC Metadata Registry José Borbinha, Hugo Manguinhas UNIMARC is a family of metadata schemas with formats for descriptive information, classification, authorities and holdings. The UNIMARC activities are an IFLA Core Activity, the ICABS: IFLA-CDNL Alliance for Bibliographic Standards. UNIMARC Publishing Workflow **UNIMARC** Validation Workflow 2004 the National Library of Portugal (BN) started an activity to develop a UNIMARC Registry. The purpose is to support the processes around the evolution of the UNIMARC formats and provide a reference point for the professionals and organizations using it. The first target was on the bibliographic format, especially the development of a formal description of its structure and grammar in XML. The application of those DocBook Presentation Validation results was tested and validated in two practical cases: • The on-line textual publication of the format, in this moment in Portuguese and Ruilder Builder Builder UNIMARC (XSLT / XSLT-FO) (XSLT) (XSLT) English languages • The automatic validation of **bibliographic records**. Descriptio (XML) The system for the on-line publication provides **persistent URN identifiers** for the most recent version of the elements of the format. In this moment those URN are resolved only for HTML pages, but in the future i'll be possible to return also the same information in a structured XML reply. UNIMARC UNIMARC Grammar UNIMARC (DocBook XML) Gramma Validator (HTML / PDF / PS) (XML) (XSLT) UNIMARC A standalone tool MANGAS is available for the automatic validation of A standarde tool, MANGAS, is available for the automatic validation of bibliographic records. This tool validates the integrity of a UNIMARC record and it's information, supporting also features to provide detailed reports and correct records. The engine is also used in an equivalent on-line service. Gramma (XML) Record Error Report e next steps of this activity will be: To revise and finish the formal UNIMARC Registry according to the ISO/IEC 11179 (formal description of terms, revision of the URN space, etc.) (MarcXML) (XML) To develop a stable web-service for machine access Add more UNIMAR formats, versions and languages, and formalize the descriptions of changes between versions **UNIMARC** in XML **Applications** The UNIMARC Registry >UNIMARC Grammar our formate/hibliog stor id="FieldType">...</indic Purpose Record Lo r length="24">...<leade value value="0" • Blocks · Sub/ block tag="2--">...<block field month ured="false" o Fields Control Field • Publishing of Human Readable Versions Field nent start="0" end="4">....</dement of UNIMARC eld tag="501" mandatory="false" II="ColTitleType">...</datafield set id="empty" length="1">. Multilingual Block Controlfield Multi-version Leader Formats and · For all the formats Publishing of Machine Readable Versions of UNIMARC • Grammar (structured rules) Format Index Indicator Subfield · Descriptions (structured text) Tool MANGAS: manipulation an Element Subfi Main Concepts Value-set Mangas >UNIMARC Description · Each format has its own : cription Collection <4escription-list 1 ar:bibliographic:1:/* locale="pt.PT"> Working interface 14 XML grammar file<descript m Item um=*/200.h* o de uma parte ou seccão" • URN space <description • Defini Record Vie Version control example name="Ex 1" </definition> Netes Batch progre • Multilingual, having for each language: • Occa Description Element • Its own XML description file URN and Locale provideria campo contila o some de famílica considerada o materido poteinetuni; de uma publicegún, solo forma de pr N. N. Sat. N. Reg. Occurrence • Its own URN sub-space Notes Summary Validation Repor Index Applications Definition Online Publishing n felha de corte, deste po

Example

UNIMARC in DocBook (http://www.docbook.org)

- For Humans (access to a readable description any version of the format in any language)
- For Systems and Machines (access to structured descriptions of the format for building user interface applications)
- Record Validation
 - Quality Control Services (validation of the consistency of records according to any version of the format)
 - Editing and Cataloguing Services (automatic configuration of editing UNIMARC interfaces for professionals)

Biblioteca Nacional Digital

http://bnd.bn.pt

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Reports

Detected Errors

Mangas On-line (Diagnostic Service)



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Diagnostic Report (XML)

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