

Standards and library services - American experience

Sally McCallum
Library of Congress
smcc@loc.gov

Topics

- Networking environment
 - diversity, options, flexibility
- Services standards support
- Essential Standards

Notes

- American experience
- Some points match your environment, others may not
- You are best judge
- Keys:
 - Standards
 - Evolution

General Framework

- Utilities
- Networks
- System vendors
- Book vendors
- Record vendors
- A&I services
- Internet search engines
- National Libraries
- University libraries
- Research libraries
- Public libraries
- School libraries
- Corporate/Special libraries
- Online resource suppliers

American library landscape features

- Diversity at all levels - systems used, size, collection type
- Competition - systems, record suppliers
- Need for cost savings
- Voluntary cooperation
- Use of standards (long history)
 - Transfer: MARC 21, Z39.50
 - Content: ISBD, AACR, LCSH, LCC, Dewey

Library services

- Online union catalog
- Online catalog
- Online ILL
- Retrieval across different systems
- Online virtual union catalog
- Copy cataloging
- Retrospective conversion
- Cooperative programs
- Cross domain retrieval
- Access to electronic resources
- Special topic catalogs

Online union catalogs

- Network utilities (bibliographic):
 - OCLC - Online Computer Library Center
 - RLG - Research Libraries Group
 - now over 7000 record creation members
 - now over 40,000,000 records in each
- What made these develop:
 - Development of MARC
 - Union catalog tradition
 - Copy cataloging tradition

Network utilities

■ Similarities

- Bibliographic and Authority records
- Authority coordination
- Internet access
- Z39.50 access
- Search charge
- Credits

■ Differences

- Master record (OCLC)
Multiple record (RLG)
- Record use charges (OCLC)
- Contracts through regional nets (OCLC)
Contracts direct (RLG)

Network utilities

- Support:
 - Online union catalogs
 - Online ILL
 - Retrospective conversion
 - Copy cataloging
- Moving toward:
 - Access to electronic resources

Online catalogs

- System vendors (MARC 21) - all sizes:
 - Large: VTLS, ExLibris, Endeavor, Innovative, Horizon, Sirsi, GEAC, etc.
 - Smaller: SIRS/Mandarin, Follett, Mitinet, Minaret, Winnebago, CDS/ISIS, etc.
 - www.loc.gov/marc/marcsysvend.html
- Tools:
 - MARC review, Validator, MARCMaker, etc.

Copy cataloging

- MARC 21 record suppliers
 - Network utilities
 - Book vendors
 - records with books
 - Record vendors - CDRROMs, online
 - Library systems
 - Library of Congress
 - many Z39.50 accessible sites
 - FreeMARC

Copy cataloging

- Installed base of 1000s of MARC 21 systems
- Over 1,000,000,000 MARC 21 records in local and network systems
- Accessible to 100s of Z39.50 clients
- Thousands of librarians who “speak” MARC 21

Retrieval across different systems

- Many Z39.50 implementations - stand alone and part of most library systems
- System diversity could be a major barrier to sharing data
- Library systems encourage proprietary solutions - only share with like systems
- Z39.50 is open solution

Online virtual union catalog

- Regional and state-wide virtual union catalogs through simultaneous Z39.50 search of several sites
- Z39.50 gateways
- Flexibility for choosing sites for users to be able to access
- Need for attention to search capabilities in different systems (use Bath profile)

Cooperative programs

- Name authority cooperation
 - Essential but expensive part of cataloging
 - Over 300 libraries cooperating with LC
 - Over 700,000 name records
 - Master file at LC; file copies at OCLC, RLG, BL
 - fully automated contribution process
 - Standards: MARC 21, Z39.50, FTP, AACR

Cooperative programs

- Subject headings
 - over 50 regular participants with LC
 - online contribution to master file at LC
 - Standards: LCSH, MARC 21
- Bibliographic records (including CONSER)
 - over 30 members
 - online through the utilities
 - Standards: AACR, MARC 21

Cross domain retrieval

- Experiment:
 - Retrieval across library systems, museums, archives
 - Building new union files
 - DC and MARC both used, DC for its simplicity and generality
 - ZING/SRW potential search protocol

Access to electronic resources

- Primary access now:
 - Web sites, of course
 - URLs in MARC records
- Potential access:
 - OpenURL
 - ZING
- Developing METS applications for resource interchange

Special subject catalogs

- Experimentation with OAI has just started

Essential standards

- Standard MARC records (MARC 21)
 - fundamental cooperative opportunities
 - union catalogs and interlibrary loan
 - copy cataloging and retrospective conversion
 - record consistency, quality control
 - training efficiencies
 - system selection variety
 - system migration efficiency

Essential standards

- Z39.50 Information Retrieval
 - supports copy cataloging and reference
 - software and hardware independent searching (across different systems)
 - search multiple sites as once (virtual union)
 - local interface for external searching and result displays (user friendly)

Our experience

- First established a union catalog environment and maximized potential for interchange
 - Obtained bibliographic systems with
 - Z39.50
 - MARC 21
 - Standardized current data
 - Copy catalog using Z39.50 or union databases
- Union catalogs support ILL, other user services

Our experience

- With environment established, now:
 - Adapting new developments in web, XML, internet - evolving
 - Implementing METS as we move into digital
 - Experimenting with ZING, OpenURL, OAI