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SPECIAL ANNIVERSARY EDITION: PART FOUR

PLANNED OBSOLESCENCE:  
A NEW MODEL FOR  
ACADEMIC PUBLISHING

DCMI: BEYOND THE  
ELEMENT SET

E-BOOKS: THE ETERNAL  
NEXT BIG THING

Z39.7 LIBRARY METRICS &  
STATISTICS DATA DICTIONARY

OPENURL KNOWLEDGE BASES  
RECOMMENDED PRACTICE



Julia Blixrud



Ted Koppel

JULIA BLIXRUD AND TED KOPPEL

## NISO Content and Collection Management Topic Committee: The Bread and Butter of Information Standards

In 2007, NISO underwent a major restructuring that led to the establishment of three new leadership Topic Committees that bring together leaders in specific subjects to provide direction to the organization for standards development in those umbrella topic areas. One addressed the business of information, another the discovery and delivery of content, and the third—the Content and Collection Management (CCM) Topic Committee—was created to address information itself. CCM covers those standards that are concerned with content items and the management of collections of content.

### Existing Standards

CCM has the largest portfolio of the three Topic Committees. Many of the 29 standards included are used frequently, and perhaps subconsciously, by the NISO community every day. The standards can be clustered in several categories: record identification, such as ANSI/NISO Z39.2, *Information Interchange Format* (the basis for the MARC format); item identification, such as ANSI/NISO Z39.9, *International Standard Serial Numbering* (ISSN); character codes, such as ANSI/NISO Z39.64, *East Asian Character Code for Bibliographic Use*; and physical collection, such as ANSI/NISO Z39.79, *Environmental Conditions for Exhibiting Library and Archival Materials*. Other standards may be less familiar, such as ANSI/NISO Z39.73, *Single-Tier Steel Bracket Library Shelving*, but are no less important. These standards are the bulk of NISO's current catalog and the information community has been relying on them for many years. A considerable number of the CCM standards were developed prior to the

digital and Internet revolutions, and the fact they continue to be of use confirms their importance to the foundations of libraries and publishing.

### Recommended Practices

Some areas of interest are too early or not appropriate for standardization, some areas might be related to other industry standardization activities, and some might never be standardized. However, the community may still seek some guidance in such an area, so CCM has supported the development of NISO Recommended Practices (RPs). Two of the latest address RFID and journal article versions. Another updates the best practices for creation of digital collections.

#### 1 RFID (Radio Frequency Identification) in U.S. Libraries (NISO RP-6-2008)

An early activity of the committee was the approval in January 2008 of the Recommended Practice for the use of

RFID in U.S. libraries. RFID is a complex set of technologies in a fast-moving, international arena, but U.S. libraries were implementing the technology and needed guidance.

Other ANSI and ISO standards outline the radio frequencies and character encoding on an RFID tag. An international standardization project addressing library uses was in a proposal stage at the time but several years away from a solution, so NISO and CCM charged a Working Group to address RFID and limited its scope to item management for a U.S. audience. The group's role was to build on the existing technical underpinnings and standards and describe how to best take advantage of RFID technology in a library service environment.

The resulting Recommended Practice, which focuses on interoperability, promotes the installation of an RFID tag at the earliest point possible in a library item's lifecycle. The document also provides a data model to ensure

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U.S. libraries can read each others' tags and includes information on security, tag migration, the book supply chain, privacy, and vandalism.

The international committee working on RFID in libraries is expected to publish their standard in 2010. CCM will be reconstituting a NISO working group to harmonize the current NISO RFID Recommended Practice with the new ISO standard.

### 2 Journal Article Versions (JAV): Recommendations of the NISO/ALPSP JAV Technical Working Group (NISO RP-8-2008)

To address a concern about versions of scholarly journal articles and their visibility during different phases of the publication process, a Recommended Practice on journal article versions was developed in partnership between NISO and the Association of Learned and Professional Society Publishers (ALPSP). The recommendations are intended to be practical ways for the community to know which version of an article is being presented. The recommended terms and definitions for journal article versions define journal articles at seven stages: Author's Original (AO), Submitted Manuscript Under Review (SMUR), Accepted Manuscript (AM), Proof (P), Version of Record (VoR), Corrected Version of Record (CVoR), and Enhanced Version of Record (EVoR). The publication includes a set of appendices that show different applications of the recommended terms and a graphical

representation of journal article versions and relationships with formal and gray literature.

### 3 Framework of Guidance for Building Good Digital Collections (3rd edition)

The Framework Recommended Practice provides an overview of major components and activities involved in the creation of digital collections. It provides a structure for identifying, organizing, and applying existing knowledge and resources to support the development of sound local practices for creating and managing good digital collections. It is intended for two audiences: cultural heritage organizations planning projects to create digital collections, and funding organizations that want to encourage the development of good digital collections. In 2008, the online community version of the Framework was developed to allow for ongoing contributions, comments, and updates from librarians, archivists, curators, and other information professionals. The Institute of Museum and Library Services (IMLS) supported development of the Framework.

### Establishment of Procedures for Standards Review

Because so many of the CCM standards are long-established standards in the community, CCM has devoted considerable committee time developing and working through the processes and procedures necessary not only to ensure that the periodic reviews of these

existing standards meet procedural requirements established by ANSI for reaffirmation, but also to provide guidance to NISO members who are asked to vote on the review ballots.

NISO members saw a higher than usual number of review ballots in the past year as CCM conducted a review of all of the standards in its portfolio that were due or overdue for their five-year periodic review. Each standard was evaluated to determine if revisions were needed, if it should be reaffirmed, or if it should potentially be withdrawn. The CCM recommendation was then included in the review ballot when it was presented to the voting pool. CCM's recommendations put the standard in the context of the broader world of other existing standards. Without this look at the bigger picture, CCM was concerned the recommendation could be flawed.

This type of review—assessing ongoing usefulness of a standard and whether there is a need for updating—is a critical part of ANSI's certification requirements of NISO as the standards development organization for the information community.

### Collaboration with Other Organizations

Another CCM role is to work with and coordinate efforts of other organizations that are doing relevant standardization work. Often, this outreach results in having work already in some stage of development brought under the NISO

umbrella to obtain industry review and formal standardization with the NISO imprimatur. Two examples of such relationships with current projects are the DAISY standard revision and the standardized markup for journal articles.

### 1 DAISY Revision

NISO selected the DAISY Consortium to be the official maintenance agency for the DAISY/NISO Standard, officially, ANSI/NISO Z39.86, *Specifications for the Digital Talking Book*, known as DAISY 3. This standard defines the format and content of the electronic file set that makes up a digital talking book (DTB). It also establishes a limited set of requirements for digital talking book playback devices. DTBs are designed to make print material accessible and navigable for blind or otherwise print-disabled individuals.

Recognizing the improved capabilities of reading devices and the increased availability of electronic content, both of which have impact on the use of the standard, the DAISY Consortium initiated a public requirements gathering in 2007 for a potential revision of the standard. In August 2008, CCM established a new working group to revise the standard to incorporate the identified requirements, add improvements to support new technological capabilities and content types, as well as to modularize it for more flexible use.

### 2 Standardized Markup for Journal Articles Working Group

The NISO membership supported a proposal to take the existing National Library of Medicine (NLM) *Journal Archiving and Interchange Tag Suite* version 3.0, its three journal

article schemas, and the associated documentation and move it through a NISO standardization process. Originally developed as a common format for receiving and exchanging electronic journal articles for PubMed, the Tag Suite has begun to see wider interest for use in government and non-governmental repository systems. To both broaden the specification's availability and formalize it as a standard, CCM has established a working group that will fast track the existing Tag Suite through the standardization process.

### Future Direction

Because of its broad portfolio, CCM is concerned with many identifiers, protocols, and best practices. The dynamic nature of the information industry with numerous new products, processes, approaches, and materials appearing each year requires CCM to continually look at industry trends and listen to industry leaders to identify opportunities where standards can solve problems, fill gaps, or improve interoperability.

In 2008, NISO initiated a new proactive approach to standards development with the holding of Thought Leader meetings. A group of experts on a particular topic are convened to discuss and identify potential areas where NISO can lead a standards-based or recommended practice solution to recognized barriers. CCM organized the NISO Thought Leader meeting on Digital Libraries and Collections. Among the recommendations was a suggestion to encourage best practices in the provision of high quality descriptive

metadata from the publisher through the publication, sales, distribution, and library accession process. Although still a work in progress, this idea shows promise in making the material supply chain more complete and useful.

In conclusion, CCM's responsibilities range from routine (and almost subtle) long-standing industry standards to those that enable cutting-edge expansion of services in the information world. We welcome your input on how we can better serve the information community.

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**JULIA BLIXRUD** <jblix@arl.org> is Assistant Executive Director, Scholarly Communication, at the Association of Research Libraries (ARL).

**TED KOPPEL** <tpk@auto-graphics.com> is AGen Verso (ILS) Product Manager at Auto-Graphics, Inc.

They co-chair the NISO Content and Collection Management Topic Committee.

### CCM Members

**Julia Blixrud (Co-chair)**  
*Association of Research Libraries*

**Kevin Cohn**  
*Atypon Systems Inc.*

**Diane Hillmann**  
*Information Institute of Syracuse University*

**Ted Koppel (Co-chair)**  
*Auto-Graphics, Inc.*

**Betty Landesman**  
*National Institutes of Health Library*

**Bonnie Lawlor**  
*National Federation of Advanced Information Services (NFAIS)*

**Rice Majors**  
*Innovative Interfaces, Inc.*



## RELEVANT LINKS

**CCM webpage**  
[www.niso.org/topics/ccm/](http://www.niso.org/topics/ccm/)

**CCM Standards Portfolio**  
[www.niso.org/topics/ccm/ccmstandards/](http://www.niso.org/topics/ccm/ccmstandards/)

**DAISY Standard (Z39.86) Revision wiki**  
[www.digitaltalkingbook.com/ZedNext/?q=ZedNext](http://www.digitaltalkingbook.com/ZedNext/?q=ZedNext)

**Framework of Guidance for Building Good Digital Collections**  
[framework.niso.org/](http://framework.niso.org/)

**Journal Article Versions (JAV), NISO RP-8-2008**  
[www.niso.org/publications/rp/RP-8-2008.pdf](http://www.niso.org/publications/rp/RP-8-2008.pdf)

**RFID in U.S. Libraries, NISO RP-6-2008**  
[www.niso.org/publications/rp/RP-6-2008.pdf](http://www.niso.org/publications/rp/RP-6-2008.pdf)

**Standardized Markup for Journal Articles Working Group**  
[www.niso.org/workrooms/journalmarkup](http://www.niso.org/workrooms/journalmarkup)

**Thought Leader Meeting on Digital Libraries and Collections**  
[www.niso.org/topics/tl/NISODLDCreport.pdf](http://www.niso.org/topics/tl/NISODLDCreport.pdf)