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...
The international committee working on RFID in libraries is expected to publish their standard in 2010. CCMM will be reconstituting a NISO working group to harmonize the current NISO RFID recommended practices with the new international standard.

**Continued**
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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**RELEVANT LINKS**

CCM webpage
www.niso.org/topics/ccm/

CCM Standards Portfolio
www.niso.org/topics/ccm/ccmstandards/

DAISY Standard (Z39.86) Revision wiki
www.digitaltalkingbook.com/zedNext/?q=ZedNext

Framework of Guidance for Building Good Digital Collections
framework.niso.org/

Journal Article Versions (JAV), NISO RP-8-2008

RFID in U.S. Libraries, NISO RP-6-2008
www.niso.org/publications/rp/rp-6-2008.pdf

Standardized Markup for Journal Articles Working Group
www.niso.org/workrooms/journalmarkup

Thought Leader Meeting on Digital Libraries and Collections
www.niso.org/topics/tl/NISODLDReport.pdf