TOPIC
YEAR IN REVIEW AND
STATE OF THE STANDARDS

NISO 2013 YEAR IN REVIEW

TC46 2013 YEAR IN REVIEW

NISO CELEBRATES 75 YEARS

STATE OF THE STANDARDS
NISO UPCOMING 2014 EDUCATIONAL EVENTS

APRIL
9  Back from Marrakesh: Implementing an Accessible Content World (Webinar)
23  Dealing with the Data Deluge: Successful Techniques for Scientific Data Management (Virtual Conference)

MAY
14  Getting to the Right Content: Link Resolvers and Knowledgebases (Webinar)

JUNE
11  Fragmented Publishing: The Implications of Self-Publishing (Webinar)
18  Transforming Assessment: Alternative Metrics and Other Trends (Virtual Conference)

JULY
Summer Break

AUGUST
13  Streamlining and Simplifying: Advances in Consortial Licensing (Webinar)

SEPTEMBER
NISO Two-Part Webinar: E-books for Education
10  Part 1: E-books for Education: Electronic Textbook: Plug in and Learn
17  Part 2: E-books for Education: Open Textbook Initiatives

24  Library Data in the Cloud (Virtual Conference)

OCTOBER
20–21  Web Technologies as a Distribution Platform: (In-Person Meeting with Live Streaming)

NOVEMBER
12  Keyword Search = “Improve Discovery Systems” (Webinar)
19  Can’t We All Work Together? Interoperability & Systems Integration (Virtual Conference)

DECEMBER
3  Connecting the Library to the Wider World: Successful Implementations of Linked Data (NISO/NFAIS Virtual Conference)
10  Part 1: Sustainable Information: Digital Preservation for Text
17  Part 2: Sustainable Information: Digital Preservation of Audio-Visual Content

NISO Open Teleconferences
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CONTENTS

2  From the Publisher

FE 4
FEATURES
4  NISO 2013 Year in Review
20  TC46 2013 Year in Review

NR
NISO REPORTS
26  NISO Celebrates 75 Years: Milestones
    July 2009 – December 2013

NW 28
NOTEWORTHY
28  Joint Declaration of Data Citation Principles
28  BnF Is First National Library Appointed
    as an ISNI Registration Agency
29  New Edition of Field Guide to Fixed Layout
    for E-books Available from BISG
29  Journal Usage Half Life Study Used in
    Debate Over Open Access Embargo Periods

SS 30
STATE OF THE STANDARDS
30  In Development
31  In Revision
32  Periodic Review
33  Published and Approved NISO Standards
35  NISO Recommended Practices
37  NISO Technical Reports
37  Withdrawn NISO Standards

INFORMATION STANDARDS QUARTERLY (ISQ) is a publication by
the National Information Standards Organization (NISO). ISQ is NISO’s
print and electronic magazine for communicating standards-based
technology and best practices in library, publishing, and information
technology, particularly where these three areas overlap. ISQ reports
on the progress of active developments and also on implementations,
case studies, and best practices that show potentially replicable efforts.

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In the first ISQ issue of each new year, we take a look back at the prior year to reflect on the successes we have had in standards development in the information community and consider both where we have been and where we are headed. While we do the same in this Spring 2014 of ISQ, we also want to recognize an upcoming milestone. This summer NISO will celebrate the 75th anniversary of our founding. The leaders in the library community who came together back in 1939 were visionaries who saw the need for our community to collaboratively solve issues through standards development. Often people are challenged to understand exactly what standards are and the role they play in the space of information distribution. Likewise they don’t realize the critical importance of promoting awareness about those standards to advance their successful adoption.

This is why Information Standards Quarterly exists: to help educate readers about the standards and technology in our community, share experiences of implementation, and report on important initiatives in information distribution from other organizations. Along with our educational programs, ISQ serves NISO’s mission to create and foster the use of standards and technology in the communities we serve and for the public at large.

I don’t know that many sitting in the room back in 1939 could have imagined the technologies that we now use to distribute information. Perhaps the most prescient among them could foresee from the pre-computer shadows of traditional cataloging and information practice to something like today’s widespread adoption of telecommunications and the internet. The breadth and depth of information and technology available to our community has grown and expanded beyond what most of us could have imagined when we started our careers. We have access to more information and computing power in our pockets through our smartphones than was available to even the best librarian at the most prestigious library from their organization’s entire computer center.

The creation and distribution of today’s information occurs at a volume and a pace that was unthinkable even 25 years after our foundation. NISO has played an important role in facilitating this digital transformation in how content is created, discovered, and delivered.

As our organization has grown in size, scope, and impact, so too have our publications. Today’s ISQ magazine was preceded by a newsletter of the same name launched in 1989. Interestingly, the launch of the ISQ newsletter coincided with NISO’s 50th Anniversary and I’m pleased to see how the publication has evolved over the years. Voice of Z39, the newsletter that preceded ISQ, started publication in 1979 and prior to that News from Z39 was issued beginning in 1969. It was a fairly simple publication, with lists of meetings, publications, and short descriptions of a few sentences, manually typed and distributed from the University of North Carolina. You can peruse the full archive of these publications from the ISQ area on the NISO website. We’d like to thank Haverford College, and in particular Norm Medeiros at the library there, for their help in digitizing the backfile of these publications.
2014 will be an important year for NISO in another respect. In May, not long after this issue of ISQ is released, NISO and ANSI will host the plenary meeting week of ISO Technical Committee 46, the international standards development community focused on information and documentation. The meeting will take place in Washington, DC at the Library of Congress and the US National Archives; there’s a two-page spread on the meeting in this issue just before the TC46 Year in Review article. Interestingly, the first time that the US hosted a TC46 plenary meeting was in 1989, the same year that ISQ was launched, and the last time was 10 years ago in 2004. During the 2014 meeting week, NISO will be hosting a gala reception and dinner at the National Archives, with addresses from Archivist of the United States, David S. Ferriero, and Vinton Cerf, Vice President and Chief Internet Evangelist at Google. We’re expecting a great turnout and a terrific meeting. We hope you can join us.

NISO has grown and adapted over the years, and as information distribution continues to evolve, we will also continue to expand and change our work and activities. I hope as you read through this issue of ISQ, you will reflect on how much has been accomplished, not only in the past year, but throughout the 75 years that NISO has supported the library, publishing, and information distribution communities. Also consider the many thousands of people who have worked to develop our standards and make the organization a success. We cannot thank you enough!

The creation and distribution of today’s information occurs at a volume and a pace that was unthinkable even 25 years after our foundation. NISO has played an important role in facilitating this digital transformation in how content is created, discovered, and delivered.
This report summarizing the previous year’s standards development work appears in the first ISQ issue of the year to keep you informed of the scope and status of NISO’s programs on an annual basis.

OVERSIGHT COMMITTEES

Architecture Committee
Current Chair: Gerry Grenier (IEEE)
Chair through June 30, 2013: Heather Reid (Copyright Clearance Center)

In Q1/2013, the Architecture Committee issued a Strategic Directions Survey to the members to identify the important technologies and trends that face our community. The Committee is using this input to prioritize work that NISO should undertake over the next two to three years.

Business Information Topic Committee
Co-Chairs: Denise Davis (Sacramento Public Library) and Karla Strieb (Ohio State University Library)

Content & Collection Management Topic Committee
Co-chairs: Marti Heyman (Cengage Learning) and Betty Landesman (University of Baltimore)
Co-chair through September, 2013: Julia Blixrud (Association of Research Libraries (ARL))

Discovery to Delivery Topic Committee
Co-chairs: Pascal Calarco (University of Waterloo) and Lucy Harrison (Florida Virtual Campus)

Information about the oversight committees is available at: www.niso.org/topics
Bibliographic Roadmap Project

In November 2012, The Andrew W. Mellon Foundation generously provided NISO with a grant to support an initiative to develop a community roadmap that will help support movement toward a future bibliographic information exchange ecosystem. The goal of this project is to collectively determine the needs and requirements of the library, higher education, and non-profit networked information communities to ensure they are able to use and exchange bibliographic data in an increasingly networked, linked data environment.

On April 15-16, 2013, NISO held an in-person meeting in Baltimore, also broadcast via livestream, to begin the process of eliciting themes for greater discussion and prioritization. Potential action items were transferred to IdeaScale, an online idea management tool, to solicit comments and allow the community to vote on the ideas that should be pursued further. This input was used to fuel a webinar and discussion held on December 5, 2013, with further voting and comments on IdeaScale encouraged.

Some additional follow-up interviews with experts will be held, followed by the issuance of a final report summarizing the recommended actions.

Digital Bookmarking and Annotation Sharing

**APPROVED: October 2, 2011**

**Oversight:** Content and Collection Management Topic Committee

Co-chairs: Ken Haase (beingmeta, inc.) and Dan Whaley (hypothes.is)

Final Grant Report: Standards Development Workshops on E-Book Annotation Sharing and Social Reading

Following discussion meetings funded by The Andrew W. Mellon Foundation held in October 2011 in Frankfurt, Germany, and San Francisco, CA, a working group was formed to address the system requirements and syntax specification for online citation and annotation sharing. There is a need in digital environments (especially in the realm of e-books) to locate reference points and share citations and annotations for the same text across a variety of hardware platforms, likely across various editions.

A scope of work was finalized, including definitions for the project’s relationship with the work of the Open Annotation Collaboration. The Working Group is currently in hiatus as appropriate next steps are determined.

Shared E-Resource Understanding (SERU)

**Oversight:** Business Information Topic Committee

Co-chairs: Adam Chesler (Business Expert Press), and Anne McKeel (Greater Western Library Alliance)

NISO RP-7-2012, SERU:
A Shared Electronic Resource Understanding

The SERU Recommended Practice was updated in 2012 to enable it to be used with electronic products beyond e-journals (around which it was originally created in 2008). At the same time, the SERU public workroom pages were substantially revised to better support publishers and libraries in understanding and use of the SERU material. The SERU Registry continues to be updated with new supporters of SERU and is intended to enable publishers and librarians to more easily identify each other. In 2013, 25 new library or consortia and 21 new publishers or content providers were added to the Registry.

In 2013, the SERU Standing Committee worked on further publicizing the RP and educating libraries and publishers via direct contacts and public presentations at industry conferences. One project underway is a short video of testimonials on how SERU has aided the licensing process.

Adam Chesler, Co-chair for the Standing Committee, discussed SERU at the January 2013 NISO Open Teleconference for which a recording is available.
Knowledge Bases And Related Tools (KBART) Phase 2

Joint project with UKSG

APPROVED: March 17, 2010

Oversight: Discovery to Delivery Topic Committee

Current Co-chairs: Magaly Bascones (JISC Collections) and Chad Hutchens (University of Wyoming Libraries)

Co-chairs through March 2013: Andreas Biedenbach (Independent Consultant) and Sarah Price (University of Birmingham)

NISO RP-9-2010, KBART: Knowledge Bases and Related Tools

The NISO/UKSG KBART Phase II Working Group is both providing support for the Phase I Recommended Practice, NISO RP-9-2010, KBART: Knowledge Bases and Related Tools, and developing a revision that specifically addresses the areas of metadata for e-books and conference proceedings and packages licensed via consortia deals. In addition, the Working Group is exploring the area of open access materials and how this metadata might be published and shared in knowledgebases.

A draft revision of a revised Recommended Practice, covering the areas listed above, was released for public comment from September 4 to October 4, 2013. Several dozen comments of various types were received, and the Working Group spent the last part of the year reviewing them, determining appropriate responses, and making corresponding changes to the draft document. A revised Recommended Practice is expected to be published in Q1/2014.

The KBART Registry also continues to be maintained with details of contacts, URLs, and instructions relating to the transfer of e-resource metadata between content providers and link resolvers. Registration of contact details does not require endorsement, which is a separate process that all content providers, from major databases to small publishers, are encouraged to follow by submitting a sample file to the KBART Working Group that complies with the Recommended Practice. Once the file’s format and content has been reviewed and approved, and the provider has made it publicly available (in line with the recommendations), the provider will be added to a public list of endorsing providers.

When the Phase II RP is finalized, its guidelines are the ones that providers will need to follow for endorsement. Following publication of the revised RP, the Working Group will be contacting all Phase I endorsers about what they need to do to update their endorsement.

KBART Working Group member Chad Hutchens provided an update on KBART activities at the ER&L Conference in March 2013.

Alternative Assessment Metrics (Altmetrics) Project

In June 2013, the Alfred P. Sloan Foundation awarded NISO a grant to undertake a two-phase initiative to explore, identify, and advance standards and/or best practices related to a new suite of potential metrics in the community. This project is an important step in the development and adoption of new assessment metrics, which include usage-based metrics, social media references, and network behavioral analysis. In addition, this project will explore potential assessment criteria for non-traditional research outputs, such as data sets, visualizations, software, and other applications.

The first phase of the project included three in-person meetings—held October 9, 2013 in San Francisco, December 11, 2013 in Washington, DC, and January 23, 2014 in Philadelphia, PA—to identify altmetrics-related issues for potential standardization and to begin prioritization of proposed work items. The meetings were livestreamed to include even more participants than those who could attend in-person. Archived recordings, documents, and other output from the three meetings are available from the project webpage at: www.niso.org/topics/tl/altmetrics_initiative/.

Next steps in the project include follow-up interviews and final prioritization of identified standardization projects. In Phase 2, one or more working groups will be formed to develop the recommended standards. NISO may also partner with other organizations for projects of interest to both.
Supplemental Journal Article Materials

Joint project with National Federation of Advanced Information Services (NFAIS)

APPROVED: April 16, 2010; disbanded January 24, 2013

Oversight: Content & Collection Management Topic Committee

Business Working Group Co-chairs: Linda Beebe (American Psychological Association) and Marie McVeigh (Thomson Reuters)

Technical Working Group Co-chairs: Dave Martinsen (American Chemical Society) and Sasha Schwarzman (Optical Society of America)


This joint NISO/NFAIS Working Group created a Recommended Practice for publisher inclusion, handling, display, and preservation of supplemental journal article materials. Two working groups were established to undertake this work: the Business Working Group addressed semantic and policy issues, and the Technical Working Group, addressed “how-to” aspects of implementation covering linking, packaging, and archiving.


Part A begins with terms and definitions and includes the recommendations of the Business Working Group for such business practices as selecting materials, editing them, managing and hosting them, and ensuring discoverability. It also discusses referencing Supplemental Materials, maintaining links, providing good metadata, providing context, and preserving the materials. The roles and responsibilities of various parties as related to Supplemental Materials are outlined and there are recommendations for rights management.

Part B offers recommendations providing metadata for Supplemental Materials, assigning persistent identifiers to them, and ensuring their preservation. It concludes with packaging and exchange considerations. Non-normative supporting documentation to Part B contains a sample DTD for Supplemental Materials, a tag library, and examples.

Marie McVeigh, Co-chair of the Business Working Group and Sasha Schwarzman, Co-chair of the Technical Working Group, provided a presentation on this new NISO Recommended Practice on the March 2013 Open Teleconference, for which a recording is available.
Journal Article Versions (JAV) Addendum

APPROVED: August 11, 2012

Oversight: Content and Collection Management Topic Committee

Chair: Michael Dellert (SAGE Publications) through July 2013; new chair TBD


The NISO Journal Article Version (JAV) Recommended Practice (NISO RP-8-2008) identified and defined a set of terms to be applied to iterations of an article’s lifecycle 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). As these terms have been implemented, issues were noted with the term “proof” being less specific and precise than practical modern publishing circumstances require. As a result, a proposal was made and approved to update the 2008 recommended practice.

Project goals for this update include an addendum or revision to address the “proof” category of articles and to reconsider the concept of proposing a metadata framework or dictionary in which JAV terms could be incorporated. (The metadata was determined to be out-of-scope of the original group’s work in 2008.)

Although the group began meeting and made good progress, it went on hiatus in the last part of the year due to chair staffing issues. It expects to re-commence its work in Q1/2014. Among the items under consideration is a proposal that would allow different users of JAV to utilize their own local terms without collision, as part of the overall JAV metadata framework.

Nettie Lagace of NISO presented on this Working Group at the ALCTS Continuing Resources Standards Forum at the ALA Annual Conference in Chicago, IL, in June 2013.

Protocol for Exchanging Serial Content (PESC)

APPROVED: June 12, 2013

Oversight: Content and Collection Management Topic Committee

Chairs: Leslie Johnston (Library of Congress) and Kimberly Tryka (National Center for Biotechnology Information, U.S. National Library of Medicine)

This new project, approved by NISO Voting Members in June 2013, is for the development of a packaging specification to be used for the exchange and archiving of serial content. As part of their missions, many different organizations—such as libraries, archives, indexing services, content aggregators, publishers, and content creators—need to exchange and work with digital files that make up serial content. These files can be shuttled from organization to organization and within an organization many times during the lifecycle of the content. A standardized package and manifest are needed that describe a group of transmitted digital files related to a serial and ensure the integrity of the file group. The Working Group will also be examining current practices to see what strategies are used in the community and decide whether it is possible to either adopt an existing method wholesale, or to make changes to a current method to better address the specific needs of serial content, rather than creating a new method from scratch.

At the end of 2013, the group was in its information-gathering phase, where members are actively sharing local practices and procedures in order to identify commonalities and best practices. Discussions cover various workflows and metadata used by the stakeholders, moving into the creation of potential exchange scenarios, which could then be used for analysis to determine required elements and possible profile sets.

Leslie Johnston and Kim Tryka, PESC Co-chairs, participated on the NISO Open Teleconference on December 9, for which a recording is available. Leslie Johnston also provided a Working Group update as part of the NISO Update at ALA Midwinter 2014 in Philadelphia.
Demand-Driven Acquisitions

APPROVED: June 19, 2012

Oversight: Business Information Topic Committee

Co-chairs: Barbara Kawecki (YBP Library Services) and Michael Levine-Clark (University of Denver)

This project was chartered to develop best practices for populating and managing the pool of monographic titles under consideration by libraries for potential purchase, including methods for automated updating and removal of discovery records; development of consistent models for the three basic aspects of e-book DDA—free discovery to prevent inadvertent transactions, temporary lease, and purchase—that will work for both publishers and libraries; methods for managing DDA of multiple formats; and ways in which print-on-demand (POD) solutions can be linked to DDA.

Three DDA subgroups—technical processes, access methods, and metric modeling—were formed to detail further topics and questions as part of the information-gathering phase of this work. A survey was conducted in August and garnered 180 responses to dozens of questions, which yielded rich data for the Working Group. Surveys for public libraries and consortia have also been organized as well as some follow-up interviews with selected survey respondents.

A draft Recommended Practice is expected to be available for public comment towards the end of Q1/2014.

Co-chairs Michael Levine-Clark and Barbara Kawecki presented on the work of the DDA group at ER&L in March 2013, where an impromptu focus group of stakeholders was also held. They also presented on the group’s work and survey results at the Charleston Conference on November 8.

Presentation and Identification of E-Journals (PIE-J)

APPROVED: February 8, 2010

Oversight: Business Information Topic Committee

Standing Committee Co-chairs: Sally Glasser (Hofstra University) and Ed Cilurso (Taylor & Francis)

Working Group Co-chairs: Cindy Hepfer (University of Buffalo, SUNY) and Bob Boissy (Springer)

NISO RP-16-2013, PIE-J: Presentation & Identification of E-Journals

Following the public comment period in late 2012, the PIE-J Working Group finalized and published in March 2013 its Recommended Practice, PIE-J: Presentation & Identification of E-Journals (NISO RP-16-2013). The RP provides guidance on the presentation of e-journals—particularly in the areas of title presentation, accurate use of ISSN, and citation practices—to publishers and platform providers, as well as solves some long-standing concerns of serials, collections, and electronic resources librarians. In addition to the recommendations, the document includes extensive examples of good practices using screenshots from various publishers’ online journals platforms; a discussion of helpful resources for obtaining title history and ISSN information; an overview of the International Standard Serial Number (ISSN) and key points for using it correctly; an explanation of the Digital Object Identifier (DOI®), the registration agency CrossRef, and tips on using DOIs for journal title management; and a review of related standards and recommended practices.

Following publication, a PIE-J Standing Committee was formed to assist with support and publicity for the RP and manage communications to determine when updates to the recommendations are needed. As part of the materials to help the Standing Committee with its work, the Working Group created two forms of a brochure for PIE-J, both available via the group’s workroom page.

Steve Shadle, PIE-J Working Group member, presented on PIE-J on the April 2013 NISO Open Teleconference, for which a recording is available. Co-chair Ed Cilurso spoke about PIE-J as part of the NISO Update at ALA Midwinter 2014 in Philadelphia. Proposals for PIE-J presentations have been accepted for ER&L in Austin in March 2014 and NASIG in Fort Worth in May 2014.
Open Access Metadata and Indicators

APPROVED: January 21, 2013

Oversight: Discovery to Delivery Topic Committee

Co-chairs: Cameron Neylon (Public Library of Science, PLoS), Edward Pentz (CrossRef), and Greg Tananbaum (SPARC Scholarly Publishing & Academic Resources Coalition)

NISO RP-22-201x, Open Access Metadata and Indicators

A new project to develop recommended practices for Open Access Metadata and Indicators was approved by NISO voting members in January 2013. Articles are increasingly published in open access form as publishers increase their efforts to optimize the availability of research articles in response to changes in policy by governments and funders and growing demand from researchers themselves. Many offerings are available from publishers under the banner of Open Access (OA), Increased Access, Public Access, or other descriptions; the terms offered vary between publishers and, in some cases, based on the funding organization of the author. Adding to the potential confusion, a number of publishers also offer hybrid options in which some articles are “open” while the rest of the journal’s content is available only by subscription or license. However, no standardized bibliographic metadata currently exist to provide information on whether a specific article is freely readable and what re-use rights might be available to readers. Visual indicators or icons indicating the openness of an article are inconsistent in both design and use across publishers or even across journals from the same publisher.

The new Working Group progressed very quickly and completed a draft recommended practice that was issued for public comment in January 2014. This draft, Open Access Metadata and Indicators (NISO RP-22-201x), proposes the adoption of two core pieces of metadata and associated tags: <free_to_read> and <license_ref>. The first tag would indicate that the work is freely accessible during the specified timeframe. The second tag would contain a reference to a URI that carries the license terms specifying how a work may be used. Use and re-use rights can be difficult to explain in metadata; by publishing URIs for applicable licenses and including these URIs in the metadata for the content, more detailed explanations of rights can be made available. The <license_ref> metadata can also be used to express how usage rights change over time or point to different licenses for particular time periods, for example when an embargo applies.

The recommended metadata tags can easily be incorporated into existing metadata distribution channels, encoded in XML, and added to existing schemas and workflows. Publishers and platform providers can use the <free_to_read> tag to automate the display of appropriate status icons to users. The combination of <free_to_read> and <license_ref> metadata provides a mechanism for signaling or determining compliance with most funder and institutional policies that allow compliance through the article publisher’s site. In addition to the recommendations, the Working Group defined the most common use cases and described the extent to which the recommendations will solve the situation.

Following the public comment period, the group will revise the document as needed to address the feedback. A final Recommended Practice is expected in Q2/2014. The group has also identified several issues for further follow-up, such as the incorporation of the recommended metadata into existing formats, such as ONIX.

Nettie Lagace, NISO Associate Director for Programs, provided an overview of the group’s work at the CNI Fall Meeting in Washington, DC, in December. Ed Pentz, Working Group Co-chair, described the group’s effort on the NISO Open Teleconference on January 13, 2014, for which a recording is available. Heather Reid, Working Group member, provided a general update as part of the NISO Update at ALA Midwinter 2014 in Philadelphia.
Resource Synchronization (ResourceSync)

Joint project with the Open Archives Initiative (OAI)

APPROVED: December 14, 2011

Oversight: Discovery to Delivery Topic Committee

Co-chairs: Todd Carpenter (NISO) and Herbert Van de Sompel (Los Alamos National Laboratory)

The ResourceSync project was initiated as a joint NISO and OAI initiative to develop a standard for the largescale synchronization of web resources. The specification is intended to allow for the synchronization of web-based objects themselves, not just their metadata, and builds on the OAI-PMH strategies. The core group was funded with a grant from the Sloan Foundation and is augmented by other industry and research participants, some of whom are sponsored by JISC.

A beta specification, released for public comment in February 2013, described a synchronization framework for the web consisting of various capabilities that allow third-party systems to remain synchronized with a server’s evolving resources. The capabilities can be combined in a modular manner to meet local or community requirements. The specification also describes how a server can advertise the synchronization capabilities it supports and how third-party systems can discover this information. The specification repurposes the document formats defined by the Sitemaps protocol and introduces extensions for them. Test implementations of the specification, including Python and Java code libraries, and a DSpace-specific Java implementation, were conducted to provide further feedback.

Following discussion and evaluation of the comments and tests, the Working Group created several further drafts of the specification. A decision was made that some desired features, such as push notification and archive capabilities, would not be included in the first version of the specification; it is likely that further development for these will proceed in the future through an additional path. Subsequently, a final version of the specification was completed and the approval process initiated in January 2014. Assuming approval by NISO members and ANSI, the standard is expected to be published in early Q2/2014.

The core group members also published an article in D-Lib Magazine in January/February 2013, A Technical Framework for Resource Synchronization. The group was very busy during 2013 making presentations about the forthcoming standard at WWW 2013 (Rio de Janeiro, May); 8th OAI Workshop on Innovations in Scholarly Communication (Geneva, June); NISO Update, ALA Annual (Chicago, June); Open Repositories (Charlottetown, PEI, July); Joint Conference on Digital Libraries (Indianapolis, July) Repository Fringe (Edinburgh, August); Theory and Practice of Digital Libraries (Malta, September); and Semantic Web in Libraries (Hamburg, November).

Additionally, Herbert Van de Sompel provided a half-day tutorial on ResourceSync following the LITA Forum (Louisville, KY, November) and Bernard Haslhofer and Simeon Warner conducted a training webinar in December. Recordings are available for both.

There is a high degree of interest in this standard. The outreach and training resources that have been produced over the course of this initiative have already been viewed or downloaded more than 15,000 times. Many of the repository networks, such as the Digital Public Library of America (DPLA), and Europeana, and developing notification systems, such as the American Association of Publishers CHORUS project and the Association of Research Libraries SHARE initiative, have been closely following the development of ResourceSync. Discussions with these project teams are continuing related to the adoption of ResourceSync as a solution to their development needs.
Educational Programs

Under the leadership of the Education Committee and Juliana Wood, NISO’s Education Programs Manager, NISO continued its robust education program in 2013 with the seventh annual NISO/BISG Changing Standards Landscape forum at ALA Annual, thirteen webinars that included two months with two related parts, and four virtual conferences. Virtual conferences were a new type of educational event that NISO began offering in 2013. These 5-6 hour conferences are held online in webinar-like formats; the longer length allows the depth of coverage of a conference coupled with the convenience of a webinar. Over 120 libraries took advantage of the benefit of one free connection to all NISO webinars for Library Standards Alliance (LSA) members.

Over 125 sites attended NISO’s virtual conferences and an additional 1330 sites participated in the NISO webinars. More than 60% of the sites had multiple viewers for the virtual events, thus an estimated 5200 people benefited from NISO’s education events! With registrants having access for a year to the recorded versions of the events, even more people were able to learn from these events.

The Dublin Core Metadata Initiative continued its partnership with NISO to present six webinars in 2013 that drew some 1460 participants from 400 sites.

NISO also held ten free open teleconferences to keep the community apprised of standards-related activities and provide an opportunity for feedback.

Slide presentations from all of the events and the webinars and audio recordings of the open teleconferences are publicly available on the NISO website in the 2013 events area.

Past and future event information is available at: www.niso.org/news/events

Institutional Identifiers (I²)

APPROVED: January 10, 2008; disbanded March 31, 2013

Oversight: Content and Collection Management Topic Committee

Co-chairs: Grace Agnew (Rutgers, The State University of New Jersey) and Oliver Pesch (EBSCO Information Services)

NISO RP-17-2013, Institutional Identification: Identifying Organizations in the Information Supply Chain

The Institutional Identifier (I²) project was established to develop a robust, scalable, and interoperable standard for identifying a core entity in any information management or sharing transaction—the institution. The I² Working Group performed extensive community needs assessment with the publishing, library, and repository use sectors and developed various use case scenarios.

Concurrent with these efforts, the International Organization for Standardization (ISO) was developing a standard for a “name” identifier for public parties “involved throughout the media content industries in the creation, production, management, and content distribution chains” which resulted in the March 2012 publication of ISO 27729, Information and documentation - International standard name identifier (ISNI).

In early 2011, the I² Working Group initiated discussions with the ISNI International Agency (ISNI-IA) about the potential of using the ISNI standard and the ISNI-IA’s infrastructure for institutional identification, rather than publishing a separate standard for institutions. An agreement to use ISNI for institutional identification resulted from these discussions, and I² contributed further recommendations to the ISNI-IA, particularly regarding needed metadata for institutions, that were incorporated into the ISNI-IA procedures.

The NISO Recommended Practice, Institutional Identification: Identifying Organizations in the Information Supply Chain (NISO RP-17-2013), that was published in March 2013 describes the work done by the I² Working Group, provides background on the collaboration agreement with the International Standard Name Identifier (ISNI) International Agency to use the ISNI-IA’s infrastructure for institutional identification, and explains the requirements for using ISNI for institutions.

The IA has since appointed Ringgold and Bowker as Registration Agencies that can assign ISNIs to institutions and by the end of 2013 over 480,000 institutional ISNIs had been assigned.

The group was disbanded following its RP publication as the ISNI-IA will be responsible for ongoing implementation.
Improving OpenURL Through Analytics (IOTA)

APPROVED: December 8, 2009; disbanded December 2, 2013

Oversight: Discovery to Delivery Topic Committee

Chair: Adam Chandler (Cornell University)

NISO RP-21-2013, Improving OpenURLs Through Analytics (IOTA): Recommendations for Link Resolver Providers

NISO TR-05-2013, IOTA Working Group Summary of Activities and Outcomes

The IOTA (Improving OpenURLs Through Analytics) Working Group investigated the feasibility of creating industry-wide, transparent and scalable metrics for evaluating and comparing the quality of OpenURL implementations across content providers, so as to provide benchmarks against which improvements to OpenURLs can be made, thereby improving linking for end users. The IOTA reporting system was created with over 23 million OpenURLs from 11 different link resolvers, which were analyzed for the project. A Completeness Index algorithm was developed to measure the completeness of a given provider’s OpenURLs in aggregate.

The IOTA working group completed its project and in April NISO published a new recommended practice, Improving OpenURLs Through Analytics (IOTA): Recommendations for Link Resolver Providers (NISO RP-21-2013), as well as a technical report, IOTA Working Group Summary of Activities and Outcomes (NISO TR-05-2013).

The group continued with education and promotion activities following the issuance of the two publications. Oliver Pesch of EBSCO Information Services spoke about IOTA as part of the LITA/ALCTS Electronic Resources Management Interest Group meeting at ALA Midwinter in Seattle, WA, on January 27, 2013, and Aron Wolf provided a verbal description and update of the group’s work as part of the NISO update session at ALA Midwinter, also held on January 27. Rafal Kaprowski, Working Group member, presented on behalf of IOTA at the NISO update at the ALA Annual meeting in Chicago, IL in June 2013. Adam Chandler and Aron Wolf presented on IOTA’s work at the Charleston Conference on November 7. Following this presentation, the group’s work was considered completed and it was officially disbanded.

Journal Article Tag Suite (JATS)

APPROVED: September 2, 2009

Oversight: Content and Collection Management Topic Committee

Co-chairs: Jeff Beck (National Center for Biotechnology Information, U.S. National Library of Medicine) and B. Tommie Usdin (Mulberry Technologies, Inc.)

ANSI/NISO Z39.96-2012, JATS: Journal Article Tag Suite

Following publication of the JATS: Journal Article Tag Suite standard (ANSI/NISO Z39.96-2012)—the intellectual successor to the NLM Journal Archiving and Interchange Tag Suite—the standard was placed on the continuous maintenance track and a Standing Committee was formed. Continuous maintenance will support a more rapid updating and change environment for the standard and allow implementers to provide ongoing feedback and comments.

Comments received through Q3/2013 have been reviewed and evaluated by the JATS Standing Committee and a draft revision of the standard incorporating the approved changes has been developed. Additional input received through Q2/2014 will also be evaluated and added, with the intent of issuing a revised edition of the standard for approval in Summer 2014. Information on how to submit comments on the standard is available from the JATS workroom webpage.

The annual JATS-Con 2013 conference was originally scheduled for October 2013; however, due to the U.S. government shutdown, the conference was rescheduled to April 1-2, 2014. All of the presentations at the conference will deal with the standard, its implementation, its relationship to other standards, and future plans and proposals.
ONIX-PL Encodings

Project Lead: Selden Lamoureux

The Andrew W. Mellon Foundation awarded NISO a grant to support the encoding of a collection of template licenses for e-resources into the ONIX for Publications Licenses (ONIX-PL) format for deposit into the GOKb and KB+ knowledgebases for free distribution to the library, publishing, and library systems community. The deposited encodings—to be made available under a Creative Commons Public Domain (CC-0) license—will allow libraries that license electronic content to import the template licenses into their own electronic resource management systems for further local customization and implementation. The project will also fund some publicly available training resources that will inform community members on how to use those encodings for their own purposes.

Jisc Collections, a division of the UK’s Joint Information Systems Committee that manages electronic content acquisitions for member institutions of higher learning in the UK, has already encoded all of the licenses for Jisc Collections-subscribed content and deposited them in its KnowledgeBase Plus (KB+) database. While KB+ has proven a useful tool for institutions in the UK, it has not moved beyond this venue because the encodings produced by Jisc Collections are restricted to Jisc members’ usage. To encourage ONIX-PL adoption, Jisc Collections provided additional funding support for the project to provide training in the encoding format and the ONIX-PL Editing software.

Ten sample licenses have been encoded through this project from providers that include Nature, Elsevier, Duke, DeGruyter, JSTOR, Springer, and Oxford. Completed encodings that were reviewed by the publishers have been provided to GOKb. The GOKb repository, which was in prototyping in 2013, is scheduled to be go live with partners in Q1/2014 and have a general public release mid-year 2014.

NCIP (NISO Circulation Interchange Protocol)

Oversight: Discovery to Delivery Topic Committee

Chair: Mike Dicus (Ex Libris)


The NCIP standard is managed under continuous maintenance and the NCIP Standing Committee holds monthly conference calls to review status of implementations and other general business. Two in-person meetings were held on April 23-24, hosted by OCLC in Dublin, Ohio, and October 8-9 in Denver, Colorado, hosted by TLC. At the in-person meetings, all comments submitted by the meeting deadline were reviewed and evaluated as possible updates to the protocol.

EnvisionWare, which had been serving as the NCIP Maintenance Agency for many years, stepped down from this post. The Standing Committee determined that the maintenance tasks could be taken over by its members, and recommended that the position of Maintenance Agency be dissolved. This recommendation was approved by the NISO Discovery to Delivery Topic Committee. It should be stressed that this administrative change translates into no functional change to NCIP or loss of any support.

Other activities undertaken by the group in 2013 included discussion of the best ways to collate and publicize vendor support, general updating of the NCIP workroom pages and website (formerly a maintenance agency task), and monitoring of related projects, including the forthcoming ISO ILL Transactions standard (ISO 18626), the Library Communications Framework (LCF), and the NISO Standard Interchange Protocol (SIP) work.

The Standing Committee’s Spring 2014 meeting will be held on April 23-24 in Petaluma, CA, hosted by The Galecia Group.
Open Discovery Initiative

**APPROVED:** August 23, 2011

**Oversight:** Discovery to Delivery Topic Committee

Co-chairs: Marshall Breeding (Independent Information Consultant) and Jenny Walker (Independent Consultant)

NISO RP-19-201x, Open Discovery Initiative: Promoting Transparency in Discovery

The Open Discovery Initiative (ODI) was launched to develop recommended practices for the new generation of library discovery services that are based on indexed search. The Working Group—made up of discovery vendors, primary and secondary publishers, and librarians—has focused its efforts on technical formats; communication of libraries’ rights/level of indexing; definition of fair linking; and usage statistics.

A report published in January 2013 summarized the results of a survey of librarians, content providers, and discovery service providers conducted from September 11 through October 4, 2012 to learn more about the current state of satisfaction with these new research tools and to measure the value of various requirements in cross-sector practice. The survey addressed current levels of scholarly metadata delivery and indexing, technical successes and opportunities in these data exchanges, and potential benefits of greater development and distribution of discovery tool usage data. A total of 871 completed survey responses were logged: 782 identified as librarians; 74 identified as publishers; and 15 identified as discovery service providers.

A draft Recommended Practice, Open Discovery Initiative: Promoting Transparency in Discovery (NISO RP-19-201x), was issued in October for public comment. The document included background on the discovery landscape, specific recommendations in each of the four areas listed above, and recommendations for next steps after the ODI Recommended Practice is published.

The Working Group is wrapping up the final version of the recommendations, incorporating accepted comments from the public review. Final publication is expected in Q1/2014.

Marshall Breeding, ODI Co-chair, and John Law, ODI Working Group member, presented on ODI together with Doralyn Rossman of Montana State University at the ALA Midwinter Conference on January 27, 2013. Roger Schonfeld of Ithaka and Dave Lindahl of University of Missouri - Kansas City presented with Nettie Lagace of NISO at the April 2013 CNI Spring Members meeting. Marshall Breeding discussed the group’s work on the November 18 NISO Open Teleconference and provided an update as part of the NISO Update program at ALA Midwinter 2014 in Philadelphia.

Information Standards Quarterly

NISO continued publishing Information Standards Quarterly in open access in electronic form on its website in 2013. A print version was available by subscription and in print-on-demand.

**Themed issues published in 2013 were:**

- **Spring 2013:** 2012 Year in Review and State of the Standards
- **Summer 2013:** Altmetrics, with Guest Content Editor Martin Fenner
- **Fall 2013:** Research Data Curation, with Guest Content Editor Sarah Callaghan
- **Winter 2013:** Evolution of Bibliographic Data Exchange, with Guest Content Editor Ted Fons

ISQ is available at: www.niso.org/publications/isq
Z39.7 Data Dictionary

Oversight: Business Information Topic Committee

Chair: Martha Kyrillidou (Association of Research Libraries (ARL))

ANSI/NISO Z39.7-2013, Information Services and Use: Metrics & statistics for libraries and information providers – Data Dictionary

On July 30, 2013, NISO announced the publication of the fifth edition of the Information Services and Use: Metrics & statistics for libraries and information providers – Data Dictionary (ANSI/NISO Z39.7) standard. The purpose of the Data Dictionary is to assist the information community by indicating and defining useful, quantifiable information to measure the resources and performance of libraries and to provide a body of valid and comparable data on American libraries. It identifies standard definitions, methods, and practices relevant to library statistics activities in the United States. The new edition included all the accepted changes since the previous edition was published in 2004. In addition to reformatting and better organization, e-metrics that were introduced in the 2004 edition as a separate section were updated and integrated into the body of the standard to make them easier to use. Additional data gathering tools were added and all survey references were updated.

Z39.7 is managed under continuous maintenance, which enables users to submit comments and suggestions for improvements and have them evaluated by the Z39.7 Standing Committee biannually for possible inclusion in the standard. When a sufficient number of changes have been accepted, a revision of the standard is presented for approval by the NISO Voting Members.

The Standing Committee continues to scan and review the statistical survey landscape, examining other assessment efforts in the community, including conferences and papers, such as the upcoming 2014 Library Assessment Conference, the ACRL Webcast Series, and the Library Edge initiative. Discussions include the effects of these on the Data Dictionary, including use of particular vocabularies across the various efforts. The Standing Committee is also closely following ISO’s TC46/SC8 group, which is responsible for International Library Statistics (ISO 2789), Methods and procedures for assessing the impact of libraries (ISO 16439) and several related projects.

Standard Interchange Protocol (SIP)

APPROVED: April 13, 2012

Oversight: Discovery to Delivery Topic Committee

Co-chairs: John Bodfish (OCLC Online Computer Library Center) and Ted Koppel (Auto-Graphics)

The Standard Interchange Protocol (SIP), introduced by 3M in 1993, provides a standard communication mechanism to allow Integrated Library System (ILS) applications and self-service devices to communicate seamlessly to perform self-service transactions. It has become the de facto standard around the world to integrate ILSs and self-service devices. In 2012, 3M asked NISO to take over further development of SIP in the more independent, community environment that NISO provides, and to shepherd the specification through the formal standardization process.

The SIP Working Group started its effort with a review of the existing SIP version 3.0 and identified four important high-level areas to be considered as relevant to the SIP3 work product. These are: the SIP3 documents themselves, including revisions/corrections/additions, resolving ambiguities, etc.; the Maintenance Agency; SIP3’s relation to privacy standards and security; and the relation to the NCIP standard. The group met approximately bi-weekly throughout 2013 to work through these areas. A draft standard for trial use is in the final stages of preparation and is anticipated for release in Q2/2014.

When the draft standard is completed, the Working Group will address questions of compliance, certification, and assured interoperability. Updated materials in conjunction with the group’s work will be added to its workroom page as they are finalized.

Ted Koppel, Working Group Co-chair, presented an update on the group at the NISO Update at the ALA 2013 Annual meeting in Chicago, IL in June. John Bodfish, Working Group Co-chair, participated on the October 2013 NISO Open Teleconference, for which a recording is available.
SUSHI (Standardized Usage Statistics Harvesting Initiative)

Oversight: Business Information Topic Committee

Co-chairs: Bob McQuillan (Innovative Interfaces) through July 2013 and Oliver Pesch (EBSCO Information Services); Marie Kennedy (Loyola Marymount University) became Co-chair in January 2014


NISO RP-14-2012, COUNTER-SUSHI Implementation Profile

This Standing Committee provides maintenance and support for The Standardized Usage Statistics Harvesting Initiative (SUSHI) Protocol (ANSI/NISO Z39.93) and acts as the maintenance group for the COUNTER schema by providing recommendations to COUNTER and making changes to the COUNTER XML schemas (as approved by COUNTER).

In 2013, the SUSHI Standing Committee produced a minor version update of the Z39.93 standard containing an additional error code and an updated appendix of best practices for security, which was approved in February.

The Standing Committee continued its work of pursuing relevant changes to the SUSHI schema in light of the release of COUNTER 4 and making applicable updates to the SUSHI workroom pages, including page reorganization and the addition of an FAQ covering COUNTER 4. The group also developed a new logo (seen above) to aid in branding and communicating the standard. In addition, the group is soliciting other additions such as sample COUNTER Release 4 files. Members have also reviewed the SUSHI server registry to better enable support for COUNTER Release 4, and have reviewed sample client code from interested parties.

The group is now implementing a continuous maintenance procedure, which will enable it to more smoothly shuttle through further updates to the standard including the addition of filter values to SUSHI, and is forming a working group to create a technical report supporting various lighter-weight SUSHI implementations.

Oliver Pesch, Co-chair of the SUSHI Standing Committee, included an update on SUSHI as part of his presentation at the LITA/ALCTS Electronic Resources Management Interest Group meeting at ALA Midwinter in Seattle, WA, in January 2013.

NETTIE LAGACE (nlgace@niso.org) is NISO’s Associate Director for Programs and provides oversight and direction to the committees and working groups.

The workroom webpages for each of the projects discussed are available at: www.niso.org/workrooms/

The free monthly e-newsletter Newsline and the quarterly Working Group Connection reports also provide regular updates on NISO activities; to sign up send an e-mail to newsline-subscribe@list.niso.org.

Most initiatives have an interest group e-mail list that you can sign up for to receive periodic updates; visit: www.niso.org/lists.
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)
TC46 Information and Documentation

SC4
Technical Interoperability

SC8
Quality - Statistics and Performance Evaluation

SC9
Identification and Description

SC10
Document Storage and Conditions for Preservation

SC11
Archives/Records Management

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For the first time in ten years, the United States will be the host country of the Plenary Meeting Week for ISO’s Technical Committee on Information and Documentation (ISO TC 46) and all of its subcommittees. This meeting will bring together some 175 senior-level domain experts representing more than 40 countries to discuss international standardization activities in the fields of information and documentation.

Meeting Locations
The Library of Congress and the National Archives

Gala Reception and Dinner
National Archives

Welcome Address from Archivist of the United States David S. Ferriero

Keynote Speaker Vinton Cerf, Vice President and Chief Internet Evangelist, Google
NISO has been the U.S. liaison group for the International Organization for Standardization (ISO) Technical Committee 46 (TC 46) on Information and Documentation for decades. Officially designated by ANSI as the U.S. Technical Advisory Group (TAG) for TC46, NISO submits the U.S. votes and comments on all TC46 standards, based on the ballot results from the U.S. TC46 TAG members. (NISO voting members that are incorporated (or otherwise legally registered) in the U.S. are members of the TAG.)

In 2013, NISO submitted U.S. votes and comments on 14 draft standards, 3 systematic reviews, and 3 new work items. Additionally, comments were provided on 5 standards from other ISO committees that are in a liaison relationship with TC46 and NISO responded to 5 calls for participation that were issued separately from ballots.

This article summarizes the work of TC46 and its five subcommittees during 2013.
The TC46 plenary meeting was held on June 3 (opening) and June 7 (closing), 2013 in Paris, France.

Standard revisions published:

» ISO 3166-1:2013, Codes for the representation of names of countries and their subdivisions – Part 1: Country codes (3rd edition)
» ISO 3166-2:2013, Codes for the representation of names of countries and their subdivisions – Part 2: Country subdivision code (3rd edition)
» ISO 3166-3:2013, Codes for the representation of names of countries and their subdivisions – Part 3: Code for formerly used names of countries (2nd edition)

Standards confirmed:


Systematic reviews underway at the end of 2013:

» ISO 11940:1998, Information and documentation – Transliteration of Thai

Projects underway:

» Revision of ISO 5127, Information and documentation – Foundation and Vocabulary [renamed from Vocabulary]

Projects on hold:

» Revision of ISO 8:1977, Documentation – Presentation of periodicals [pending nomination of additional publisher experts for the working group]

New liaisons:

» International ISBN Agency, Category A (The ISBN IA was already a liaison with SC9)

Miscellaneous:

» SAC (China) was appointed as Secretariat of WG 4, Terminology of information and documentation. Liu Chunyan was appointed as the Convenor.
SC4 TECHNICAL INTEROPERABILITY

Secretariat: Finnish Standards Association (SFS)
Secretary: Kati Heiskanen
Chairperson: Juha Hakala (The National Library of Finland)
The SC4 plenary meeting was held on June 6, 2013 in Paris, France.

Standard revisions published:
» ISO 25577:2013, Information and documentation – MarcXchange (2nd edition)

Systematic reviews underway at the end of 2013:
» ISO 6630:1986, Documentation – Bibliographic control characters
» ISO 23950:1998, Information and documentation – Information retrieval (Z39.50) - Application service definition and protocol specification
» ISO 20775:2009, Information and documentation – Schema for holdings information
» ISO 15836:2009, Information and documentation – The Dublin Core metadata element set

Projects underway:
» New standard in development: ISO 18626, Information and documentation – Interlibrary Loan Transactions
» Revision of ISO 28560-1:2011, Information and documentation - RFID in libraries - Part 1: Data elements and general guidelines for implementation

Projects canceled:
» The proposal for a Part 5 on unique item identifier (UII) for the RFID in Libraries standard (ISO 28560) was cancelled as an SC4 project and the proposer was directed to re-submit the proposal to SC9 for consideration.

New liaisons:
» International ISBN Agency, Category A (The ISBN IA was already a liaison with SC9.)

Maintenance agency updates:
» ISIL – There are now 27 National ISIL Allocation Agencies and 2 non-national ISIL agencies.
» ILL – The maintenance agency (MA) for the ISO 10160 and 10161 series of ILL standards was disbanded. With the closing of the Library and Archives Canada’s interlibrary loan services department, they could no longer serve as the MA. With the stable status of this standard and the expectation of a new ILL transaction standard (ISO 18626), the committee decided this maintenance agency was no longer needed.

Miscellaneous:
» A new joint working group (JWG) between TC46/SC4 and two other committees—ISO/IEC JTC 1/SC 34 (Document description and processing languages) and IEC/TC 100/TA 10 (Multimedia e-publishing and e-book technologies)—was approved to investigate the means for improving the archivability of EPUB 3 through the creation of a METS profile.
SC8 QUALITY – STATISTICS AND PERFORMANCE EVALUATION

Secretariat: Detusches Institute für Normung (DIN)
Secretary: Hans-Jörg Wiesner
Chairperson: Dr Roswitha Poll through 2013; beginning 2014 Steve Hiller (University of Washington)

SC8 held three plenary meetings in 2013: on January 18 in Berlin, Germany; June 6 in Paris, France; and October 18 in Copenhagen, Denmark.

New standards published:

Standard revisions published:

Projects underway:
- Revision of ISO 11620, Information and documentation – Library performance indicators
- New standard in development: ISO 16439, Information and documentation – Methods and procedures for assessing the impact of libraries
- New standard in development: ISO 18461, International museum statistics

New work item pending:
- Proposed new standard: Information and documentation – International archives statistics

Miscellaneous:
- Claire Creaser was appointed as convener of WG 2, International library statistics, and WG 4, Performance indicators for libraries, effective January 2014.
- Steve Hiller was appointed as the convener of WG 10, Methods and procedures for assessing the impact of libraries, effective January 2014.
- Two working groups were disbanded: WG 5, Price indexes, and WG 6, Statistics on production of books, etc.
New standards published:
» ISO 25964-2:2013, Information and documentation - Thesauri and interoperability with other vocabularies - Part 2: Interoperability with other vocabularies
» ISO 27729:2013/Cor.1:2013, Technical Corrigendum 1 to ISO 27729, Information and documentation - International Standard Name Identifier, to correct an error in Annex A, Table A1 regarding the method for calculating the check character

Standards confirmed:
» ISO 7220:1996, Information and documentation - Presentation of catalogues of standards

Systematic reviews underway at the end of 2013:
» ISO 5963:1985, Documentation - Methods for examining documents, determining their subjects, and selecting indexing terms
» ISO 999:1996, Information and documentation - Guidelines for the content, organization and presentation of indexes
» ISO 15706-1:2002, Information and documentation - International Standard Audiovisual Number (ISAN) - Part 1: Audiovisual work identifier

Projects underway:
» New standard in development: ISO 17316, Information and documentation - International standard link identifier (ISLI) [The title of this standard was changed from International Standard Document Link.]

Projects on hold:
» Revision of ISO 15707, Information and documentation - International Standard Musical Work Code (ISWC) - pending appointment of a new convenor

Withdrawn:
» ISO TR 21449, Content Delivery and Rights Management: Functional requirements for identifiers and descriptors for use in the music, film, video, sound recording and publishing industries

Maintenance agency updates:
» DOI - DOI resolutions have grown to a rate of close to 1.5 billion DOI resolutions per year, with over 91 million registered DOIs by the end of 2013. China National Knowledge Infrastructure (CNKI) was appointed as a second Registration Agency in China. RR Bowker has withdrawn as a DOI Registration Agency.
» ISAN - ISAN Portugal was appointed as a new ISAN Registration Agency. The International Standard Audiovisual Number International Agency (ISAN-IA) and the Entertainment ID Registry (EIDR) have embarked on efforts to support seamless registration of content IDs in either system to enable content producers and distributors to take full advantage of the capabilities of both systems. The ISAN-IA was one of the 14 signatories to the Declaration on Audiovisual Work Identifiers at the Licences for Europe meeting on November 13, 2013, which included a recommendation for the full implementation of the interoperability between ISAN and EIDR.
» ISMN - Iceland became the 57th country to join the ISMN system.
» ISNI - The number of assigned ISNIs reached over 7 million by the end of 2013 with ~425,000 assigned to institutions. The National Library of Finland and the National Library of New Zealand became members of the ISNI-International Agency (ISNI-IA). ISNI and ORCID issued a joint statement on interoperation.
» ISSN - 61,696 new ISSN records were entered into the register in 2013.
» ISRC - Following the exhaustion of ISRCs with the “GB” code in the United Kingdom, ISRCs began to be assigned using the “UK” code. A similar issue is expected with the French “FR” codes, thus a new code of “FX” was designated, expected to begin use in 2014. Appointment of new national registration agencies has been suspended pending the revision of the standard.
» ISTC - RR Bowker in the US and Thorpe-Bowker in Australia both withdrew as ISTC Registration Agencies.
**SC10**  
**REQUIREMENTS FOR DOCUMENT STORAGE AND CONDITIONS FOR PRESERVATION**

**Secretariat:** Deutsches Institute für Normung (DIN)  
**Secretary:** Hans-Jörg Wiesner  
**Chairperson:** Dr. Sebastian Barteleit  
(Bundesarchives [Federal Archives], Germany)

The TC46 members voted in 2013 to reactivate SC10, previously called Keeping of Documents but renamed to Requirements for document storage and conditions for preservation. The scope was defined as: Standardization of requirements for storage and use of documents in libraries, archives and documentation centres, as well as practices related to maintenance and improvement of the conditions of preservation. Excluded from the scope are standardization activities for: photography and other media within the scope of TC46 and micrographics and optical memories within the scope of TC171.

Seven published standards and one project underway, previously managed by the parent committee, were moved to the responsibility of the new subcommittee. Four working groups were established to address: deacidification of paper, document storage requirements, permanence of writing, printing and copying media on paper documents, and binding materials and binding practices.

The SC’s first plenary meeting since its reactivation was scheduled for January 2014 in Berlin, Germany.

**Systematic reviews underway at the end of 2013:**
- ISO 11800:1998, Information and documentation – Requirements for binding materials and methods used in the manufacture of books
- ISO 14416:2003, Information and documentation – Requirements for binding of books, periodicals, serials and other paper documents for archive and library use – Methods and materials

**Projects underway:**
- Revision of ISO 11799-2003, Information and documentation – Document storage requirements for archive and library materials
- New technical specification in development: ISO TS 18344, Recommendation on methods of validating the success of deacidification processes for printed and handwritten documents

**New liaisons:**
- ISO/TC 42, Photography
- ISO/TC 6/SC 2, Test methods and quality specifications for paper and board

**SC11**  
**ARCHIVES AND RECORDS MANAGEMENT**

**Secretariat:** Standards Australia  
**Secretary:** Agnes Simai  
**Chairperson:** David Moldrich (Arrow Energy)

The SC11 plenary meeting was held on June 3 (opening) and June 6 (closing), 2013 in Paris, France.

**Systematic reviews underway at the end of 2013:**

**Projects underway:**
- Revision of ISO 15489-1, Information and documentation – Records management – Part 1: General

**Projects cancelled:**
- ISO/DTR 18800, Information and documentation – Implementation guidelines for disposition of records

**New work item pending:**
- Preliminary new standard proposal: How to express records management principles, models and requirements for Enterprise Architects

**New standard in development:**
- ISO 30302, Information and documentation – Management systems for records – Guidelines for implementation

**New technical report in development:**
- ISO/TR 18128, Information and documentation – Risk assessment for records processes and systems

**New technical report in development:**
- ISO/TC 181, Information and documentation – Risk assessment for records processes and systems

**Projects cancelled:**
- ISO/DTR 18800, Information and documentation – Implementation guidelines for disposition of records

**LINKS**
- TC46 webpage: www.iso.org/iso/home/standards_development/list_of_iso_technical_committees/iso_technical_committee.htm?commid=48750
- NISO International Standardization webpage: www.niso.org/international/

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NISO CELEBRATES 75 YEARS

The National Information Standards Organization turns 75 this year and its publication Information Standards Quarterly (ISQ) has just passed its 25th birthday. In the 2009 issues of ISQ when the organization turned 70, we shared with you some of NISO’s milestones beginning with its inception as Committee Z39 of the American Standards Association (ASA) in 1939. In this issue we update that timeline with new milestones from the past five years.

JULY 2009
Developers of NISO Shared E-Resource Understanding (SERU) Recommended Practice receive Coutts Award for innovation in electronic resources management

JANUARY 2010
UKSG and NISO release KBART: Knowledge Bases and Related Tools Recommended Practice (RP-9)

AUGUST 2010
NISO and Indiana University receive Andrew W. Mellon Foundation grant to advance tools for quantifying scholarly impact from large-scale usage data

Cost of Resource Exchange (CORE) Protocol Recommended Practice published (RP-10)

Joint webinar series launched with the Dublin Core Metadata Initiative (DCMI) [continued through 2013]

DECEMBER 2011
NISO and Open Archives Initiative receive grant from Alfred P. Sloan Foundation to create resource synchronization standard

JULY 2011
NISO receives Mellon Foundation grant to support standards development pre-work for e-book annotation sharing

NOVEMBER 2011
ESPReSSO: Establishing Suggested Practices Regarding Single Sign-On Recommended Practice (RP-11) is published

Information Standards Quarterly magazine becomes available in open access

A publication of the National Information Standards Organization (NISO)
JANUARY 2012

Library Standards Alliance members receive new benefit of free connection to all NISO webinars

Physical Delivery of Library Resources Recommended Practice (RP-12) is published

Making Good on the Promise of ERM: A Standards and Best Practices discussion paper is issued

FEBRUARY 2013


NISO launches new Virtual Conference educational events

MARCH 2013

PIE-J: The Presentation & Identification of E-Journals, Recommended Practice (RP-16) published

APRIL 2012

RFID in U.S. Libraries Recommended Practice (RP-6) is revised to serve as a U.S. profile to the three-part international standard ISO 28560

JUNE 2012

SERU: A Shared Electronic Resource Understanding Recommended Practice (RP-7) is updated to expand its use beyond e-journals

SEPTEMBER 2012

COUNTER-SUSHI Implementation Profile Recommended Practice (RP-14) published to aid in use of SUSHI with COUNTER reports

NOVEMBER 2012

NISO receives Andrew W. Mellon Foundation grant to develop a community roadmap for a new bibliographic information exchange ecosystem

APRIL 2013

Institutional Identification: Identifying Organizations in the Information Supply Chain (RP-17) published to define use of the ISNI identifier for institutions

JUNE 2013

Recommended Practice (RP-21) and Technical Report (TR-05) on Improving OpenURLs Through Analytics are published

NISO receives Sloan Grant to develop standards and recommended practices for Altmetrics

JULY 2013

Joint Declaration of Data Citation Principles

The Force11 Data Citation Synthesis Group has published the final version of its Joint Declaration of Data Citation Principles. As stated in the preamble:

Sound, reproducible scholarship rests upon a foundation of robust, accessible data. For this to be so in practice as well as theory, data must be accorded due importance in the practice of scholarship and in the enduring scholarly record. In other words, data should be considered legitimate, citable products of research. Data citation, like the citation of other evidence and sources, is good research practice and is part of the scholarly ecosystem supporting data reuse.

In support of this assertion, and to encourage good practice, we offer a set of guiding principles for data within scholarly literature, another dataset, or any other research object.

The eight principles address the issues of importance, credit and attribution, evidence, unique identification, access, persistence, specificity and verifiability, and interoperability and flexibility.

Many groups, including the CODATA-ICSTI Task Group on Data Citation, have contributed to the development of these principles. The group is calling on individuals and organizations that care about the place of data in research communications to endorse these principles and provides an endorsement “button” on the principles webpage.

Force11 is a community of scholars, librarians, archivists, publishers and research funders that has arisen organically to help facilitate the change toward improved knowledge creation and sharing.

Joint Declaration of Data Citation Principles:
www.force11.org/datacitation

BnF Is First National Library Appointed as an ISNI Registration Agency

In January 2014, the Bibliothèque national de France (BnF) was appointed by the ISNI International Agency as a Registration Agency for the International Standard Name Identifier (ISNI), becoming the first national library in the world to assign ISNIs.

The ISNI standard (ISO 27729) was published in March 2012 to provide a new identifier for the public identities of parties involved in the creation, production, management, and content distribution chains. Although originally intended for assignment to individuals, its use has been expanded to institutions as well. The ISNI International Agency and its authorized registration agencies have assigned over 7 million identifiers to individuals and 490,000 to organizations.

The aim of the ISNI Registration Agency at the BnF will be “to improve data interoperability across communities, both from public and private sector, and to promote trustful data created by libraries on the web of data.” Their emphasis will be on French publications, particularly those subject to legal deposit mandates, but they are also committed to ISNI assignments to parties throughout the French media content industries and cultural heritage organizations. The ISNI will also be implemented with the Library’s linked data project, data.bnf.fr.

The initial assignment of ISNIs by the International Agency was done using ingested data from the Virtual International Authority File (VIAF), which included BnF authority data. BnF personnel also participated on the ISNI quality team to evaluate and validate data and ensure disambiguity of identifier assignments.

Bowker and Ringgold are also ISNI Registration Agencies.

ISNI Registration Agency at the BnF:
www.bnf.fr/en/professionals/isni_about/s.isni_registration_agency.html?first_Art=non

ISNI International Agency: www.isni.org/
Journal Usage Half Life Study Used in Debate Over Open Access Embargo Periods

An independent study, commissioned by the Association of American Publishers analyzes the usage pattern of articles published in over 2800 academic and professional journals. It identifies the “half-life” of journals—the amount of time it takes for articles in a journal to receive half of their lifetime total downloads—and is the first major broad-based report conducted on this topic.

Phil Davis, Ph.D., an independent researcher and former science librarian, analyzed lifetime usage data from 2812 journals representing the works of 13 scholarly publishers in 10 distinct scholarly disciplines including life sciences, engineering, social sciences and the humanities.

Key findings in the study were:

- Journal article usage varies widely within and across disciplines.
- It takes significant time for journals to experience half of the lifetime downloads (“half-life”) of their articles.
- Articles in the majority of journals receive more than half of their lifetime downloads three or more years after publication.
- Only 3% of journals in all fields have half-lives of 12 months or less.
- Health sciences articles have the shortest median half-life of the journals analyzed, but still more than 50% of health science journals have usage half-lives longer than 24 months.
- In fields with the longest usage half-lives, including mathematics and the humanities, more than 50% of the journals have usage half-lives longer than 48 months.

The White House Office of Science and Technology Policy has called for evidence-based procedures to be used to set appropriate embargo periods for public access to articles reporting on federally funding research. The AAP feels the study data shows “that a one-size-fits-all embargo period for scholarly works will not fairly address disparities in journal usage, and, in turn, damage the sustainability of high-quality, peer-reviewed science communication.”

SPARC, the Scholarly Publishing and Academic Resources Coalition, argues that the half-life metric should not be used for determining embargo periods. “Publishers’ main objective in lobbying for the inclusion of embargo periods in federal public access policies is to prevent journal subscription cancellations. There is no connection between the notion of article usage half-life and journal cancellations. …Library subscriptions constitute the vast majority of journal publishers’ revenue—and libraries do not use the “Usage Half-Life” metric to determine journal subscription cancellations.”


Journal Usage Half Life study: www.publishers.org/_attachments/docs/journalusagehalflife.pdf

SPARC Talking Points on “Usage Half-Life” and Embargo Periods: www.sparc.arl.org/sites/default/files/SPARC%20TP%27s%20on%20AAP_Davis%20Usage%20Half_Life%20Study.pdf

I NW I doi: 10.3789/isqv26no1.2014.05
This comprehensive report on NISO’s standards and initiatives appears in the first issue of the year of ISQ to keep you informed of the scope and status of NISO’s program on an annual basis. If you have questions about any of the standards or development programs, contact the NISO office by phone (301-654-2512), via e-mail (nisohq@niso.org), or visit the Standards section of the NISO website (www.niso.org/standards).

In Development

Listed below are the NISO working groups that are currently developing new or revised standards, recommended practices, or reports. Refer to the NISO website (www.niso.org/workrooms/) and the Newsline quarterly supplements, Working Group Connection (www.niso.org/publications/newsline/), for updates on the working group activities.

Note: DSFTU stands for Draft Standard for Trial Use.

<table>
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<tr>
<th>WORKING GROUP</th>
<th>STATUS</th>
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| Demand Driven Acquisition of Monographs  
Co-chairs: Michael Levine-Clark, Barbara Kawecki | Recommended Practice (NISO RP-20-201x) in development. |
| Journal Article Versions (JAV) Addendum  
Chair: Michael Dellert | Revised Recommended Practice (NISO RP-8-201x) in development. |
| Knowledge Base and Related Tools (KBART) Phase II  
Joint project with UKSG  
Co-chairs: Magaly Bascones, Chad Hutchens | Revised Recommended Practice (NISO RP-9-201x) being finalized for publication following the public comment period. |
### In Development Continued

<table>
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<tr>
<td>Open Access Metadata and Indicators</td>
<td>Recommended Practice (NISO RP-22-201x) being finalized for publication following the public comment period.</td>
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<tr>
<td>Co-chairs: Cameron Neylon, Ed Pentz, Greg Tananbaum</td>
<td></td>
</tr>
<tr>
<td>Open Discovery Initiative</td>
<td>Recommended Practice (NISO RP-19-201x) being finalized for publication following the public comment period.</td>
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<tr>
<td>Co-chairs: Marshall Breeding, Jenny Walker</td>
<td></td>
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<tr>
<td>Protocol for Exchanging Serial Content</td>
<td>Recommended Practice (NISO RP-23-201x) in development.</td>
</tr>
<tr>
<td>Co-chairs: Leslie Johnston, Kimberly Tryka</td>
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<tr>
<td>Resource Synchronization</td>
<td>Standard (NISO Z39.99-201x) being finalized for publication following the comments from the beta draft.</td>
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<tr>
<td>Co-chairs: Herbert Van de Sompel, Todd Carpenter</td>
<td></td>
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<tr>
<td>Co-chairs: John Bodfish, Ted Koppel</td>
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<tr>
<td>SUSHI Server Working Group</td>
<td>NISO RP-13-201x, Providing a Test Mode for SUSHI Servers Finalizing for publication following a draft for trial use.</td>
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<tr>
<td>Chair: Oliver Pesch</td>
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### In Revision

The following are published and approved NISO standards or recommended practices that are in the process of being revised.

<table>
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<tr>
<th>DESIGNATION</th>
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<tr>
<td>NISO RP-8-201x</td>
<td>Journal Article Versions (JAV)</td>
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<tr>
<td>NISO RP-9-201x</td>
<td>KBART: Knowledge Bases and Related Tools</td>
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Periodic Review

The following published and approved NISO standards are either currently undergoing or will begin the five-year review process in 2014. The relevant Standing Committee, Maintenance Agency, or Topic Committee will make a recommendation to either reaffirm, revise, or withdraw the standard. If fifteen percent (15%) or more of the NISO voting membership joins a Voting Pool for each standard and balance requirements are met, ballots will be issued to approve the recommendation. If less than 15% of the membership joins a standard’s Voting Pool, the Board may initiate procedures for an administrative withdrawal.

See Section 7 of the NISO Procedures for more information on periodic reviews (www.niso.org/about/documents).

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<td>ANSI/NISO Z39.29-2005 (R2010)</td>
<td>Bibliographic References</td>
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### Published and Approved NISO Standards

The following NISO standards are approved and published. The notation R, e.g. R2002, indicates that the standard was reaffirmed in the specified year. Free downloadable copies of the standards are available from: www.niso.org/standards/

Comments and suggestions for revisions may be submitted at any time and are reviewed by the Standing Committees on a regular published schedule. When either a substantive revision is required or a significant number of changes have been approved, a revised standard is submitted for approval by the NISO consensus body. Such a revision may be completed at any time but no later than five years after the approval of the current version.

★: Standards that are managed under continuous maintenance by an appointed Standing Committee

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<tr>
<td>★ ANSI/NISO Z39.7-2013</td>
<td>Information Services and Use: Metrics and Statistics for Libraries</td>
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<td>and Information Providers – Data Dictionary</td>
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<td>and Preservation</td>
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<tr>
<td>ANSI/NISO Z39.29-2005 (R2010)</td>
<td>Bibliographic References</td>
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<tr>
<td>ANSI/NISO Z39.43-1993 (R2011)</td>
<td>Standard Address Number (SAN) for the Publishing Industry</td>
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<tr>
<td>ANSI/NISO Z39.71-2006 (R2011)</td>
<td>Holdings Statements for Bibliographic Items</td>
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### NISO Recommended Practices

NISO Recommended Practices are “best practices” or “guidelines” for methods, materials, or practices in order to give guidance to the user. These documents usually represent a leading edge, exceptional model, or proven industry practice. All elements of Recommended Practices are discretionary and may be used as stated or modified by the user to meet specific needs.

Free downloadable copies of these documents are available from: www.niso.org/publications/rp/

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<th>TITLE</th>
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<tr>
<td>Search and Retrieval Results Set Metadata, version 1.0</td>
<td>NISO-RP-2005-02</td>
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<tr>
<td>Publication Title</td>
<td>NISO RP-Version</td>
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<tr>
<td>Search and Retrieval Citation Level Data Elements, version 1.0</td>
<td>NISO RP-2005-03</td>
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<tr>
<td>NISO Metasearch XML Gateway Implementers Guide, version 1.0</td>
<td>NISO RP-2006-02</td>
</tr>
<tr>
<td>RFID in U.S. Libraries</td>
<td>NISO RP-6-2012</td>
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<tr>
<td>SERU: A Shared Electronic Resource Understanding</td>
<td>NISO RP-7-2012</td>
</tr>
<tr>
<td>Journal Article Versions (JAV)</td>
<td>NISO RP-8-2008</td>
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<tr>
<td>KBART: Knowledge Bases and Related Tools</td>
<td>NISO RP-9-2010</td>
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<tr>
<td>Cost of Resource Exchange (CORE) Protocol</td>
<td>NISO RP-10-2010</td>
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<tr>
<td>Physical Delivery of Library Resources</td>
<td>NISO RP-12-2012</td>
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<tr>
<td>COUNTER-SUSHI Implementation Profile</td>
<td>NISO RP-14-2012</td>
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<tr>
<td>PIE-J: The Presentation &amp; Identification of E-Journals</td>
<td>NISO RP-16-2013</td>
</tr>
<tr>
<td>Institutional Identification: Identifying Organizations in the Information Supply Chain</td>
<td>NISO RP-17-2013</td>
</tr>
<tr>
<td>Improving OpenURLs Through Analytics (IOTA): Recommendations for Link Resolver Providers</td>
<td>NISO RP-21-2013</td>
</tr>
</tbody>
</table>
NISO Technical Reports

NISO Technical Reports provide useful information about a particular topic, but do not make specific recommendations about practices to follow. They are thus “descriptive” rather than “prescriptive” in nature. Proposed standards that do not result in consensus are often published as technical reports.

Free downloadable copies of these documents are available from: www.niso.org/publications/tr/

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<tr>
<th>TITLE</th>
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<tbody>
<tr>
<td>Guidelines for Indexes and Related Information Retrieval Devices by James D. Anderson</td>
<td>NISO TR02-1997</td>
</tr>
<tr>
<td>Guidelines for Alphabetical Arrangement of Letters &amp; Sorting of Numerals &amp; Other Symbols by Hans H. Wellisch</td>
<td>NISO TR03-1997</td>
</tr>
<tr>
<td>Networked Reference Services: Question / Answer Transaction Protocol</td>
<td>NISO TR04-2006</td>
</tr>
<tr>
<td>IOTA Working Group Summary of Activities and Outcomes</td>
<td>NISO TR-05-2013</td>
</tr>
</tbody>
</table>

Withdrawn NISO Standards

In accordance with NISO procedures, standards may be withdrawn because they are superseded by a newer standard, a national version is withdrawn in favor of an international equivalent, or the content is deemed to be obsolete. In accordance with ANSI procedure, all American National Standards that are not revised or reaffirmed within ten years following ANSI approval are automatically administratively withdrawn. A list of all withdrawn NISO standards is available on the NISO website (www.niso.org/standards/). Copies of these standards are available online or from the NISO office.

The following standards were withdrawn since the last State of the Standards report:

<table>
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<tr>
<td>ANSI/NISO Z39.64-1989 (R2002)</td>
<td>East Asian Character Code (EACC) for Bibliographic Use</td>
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</tbody>
</table>
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