



IFLA Committee on Standards
WLIC 2015, Cape Town

Meeting 1: Saturday 15 August (12:30 – 15:00) - Foyer Audit 1
Meeting 2: Thursday 20 August (13:15 – 14:45) – Room 2.44-2.46

Approved Minutes

Members in attendance:

2013 – 2015 membership

Chair of meeting 1: Patrice Landry. **Members:** Division I: Jan Richards; Division II: Frederick Zarndt; Division IV: Marian Koren (meeting 1 only); Division V: Abraham Azubuiké; CDNL representative: Anita Goldberga (meeting 1 only); GB representative: Clara Chu (meeting 1 only).

2015 – 2017 membership

Chair of meeting 2: Jan Richards. **Members:** Abraham Azubuiké; Diane Beattie (meeting 2 only), Dianne Oberg (meeting 2 only), Miriam Säfström; CDNL representative: Ulrike Junger; GB representative: not yet appointed.

Non-voting: FRBR: Chris Oliver; ISBD: Mirna Willer; LIDATEC: Lars Svensson.

HQ staff support: Joanne Yeomans; Jennefer Nicholson briefly attended the first meeting.

Others also in attendance:

Julianne Beall (meeting 2 only), Gaëlle Bequet, Gordon Dunsire, Monserrat Espuga (meeting 1 only), Agnese Galeffi, Massimo Gentili-Tedeschi, John Hostage (meeting 1 only), Jean Kanengoni (meeting 2 only), Dorothy McGarry, George Prager (meeting 1 only), Pat Riva (meeting 2 only), Sandy Roe (meeting 1 only), Ulla Wimmer.

Apologies:

2013 – 2015 membership: Division III: Anders Cato; Permanent UNIMARC Committee Chair: Maria Inês Cordeiro.

2015 – 2017 membership

Christie Koontz, Paola Manoni (also ISO TC 46 representative).

Others: ISBN Board representative: Neil Wilson; CEN/TC 346 - European Committee for Standardization's Technical Committee - Conservation of Cultural Heritage: Danielle Mincio.

Meeting 1

Patrice Landry opened the meeting and welcomed all those present. The minutes of the meeting in Lyon in 2014 were approved; they are on the committee's web pages:

<http://www.ifla.org/standards-committee/meetings>

1. Matters arising since 80th WLIC Lyon

1.1 Revised Terms of reference

Following the planned review of the Committee and consultation in 2015 some adjustments have been made to the membership composition and terms of reference. As there is a demonstrated continuing need for the Committee, the Governing Board (GB) has decided to prolong the Committee for another four years with another review indicated for 2019.

1.2 Draft standards and standards proposal evaluation

The Committee launched in 2013 a Standards Manual and associated development procedure. These have guided seven sections starting or completing the process of writing or revising a standard. A summary of the standards in progress is now included on the Committee's web page: <http://www.ifla.org/node/9609>. Following two years of usage, the Committee has decided it is time to perform an initial review of the manual and procedure.

Action: Mirna Willer to submit the "Guidelines for translations of the IFLA ISBD namespace in RDF" to the Professional Committee for approval.

Action: Working group of the Standards Committee to assess both the IFLA Standards Procedures Manual and associated procedures and make proposals for revision.

1.3 Open session program WLIC 2015 Cape Town

The Satellite Meeting originally planned had to be cancelled as other priorities took precedence, however, the main item (namely the analysis of the use of IFLA Standards) will be presented during the WLIC open session. The open session's programme has been selected to reflect the varied activities connected with IFLA standards.

2. Identification of 2015 – 2017 LIDATEC liaison representative

The Linked Data Technical Sub-committee (LIDATEC) should include a direct representative of the Committee on Standards. Lars Svensson, Chair of LIDATEC, explained that it is not necessary to have someone who is a linked data specialist or has technical knowledge, but rather someone with a firm knowledge of the use of library standards and how to promote them, and who can keep the sub-committee on track and ensure a good dialogue between the committees.

Abraham Azubuiké was nominated as liaison representative to the LIDATEC sub-committee.

Action: Abraham Azubuiké to attend the meeting of LIDATEC on Wednesday 15:00 – 17:00 in room 1.63/1.64 and future meetings of the sub-committee as liaison representative from the Standards Committee.

3. Reports

3.1 Report from FRBR

Chris Oliver, incoming Chair of the FRBR Review Group, reported on progress. There are two aims.

First, a consolidation of the three models (FRBR, FRAD and FRSAD). The Consolidation Editorial Group (CEG) has moved this forward very rapidly and so the group is very advanced on this. They will meet in early October to finalise and then are aiming to go for a worldwide review in 2016 and assume there will be no major change in direction. The report on FRBR CEG from Pat Riva, Chair of the CEG, is online:

<http://www.ifla.org/files/assets/standards-committee/meetings/standards-committee-2015-08-15-frbr-mid-year-report.pdf>

Second, to have version 2 of FRBROo (object oriented) approved as an IFLA standard. Version 1.0 was completed in 2009. Both versions of FRBROo were developed in conjunction with the museum community (IFLA's FRBR Review Group working with ICOM's CIDOC Special Interest Group). FRBROo is designed as an extension of the CIDOC Conceptual Reference Model and so any changes to FRBROo must be discussed with both communities. CIDOC CRM is a well-developed model, so working with them, despite slowing down the process, will enable library data to be compatible with museum data, which is good for interoperability. Version 1 was an object-oriented interpretation of FRBR, version 2 is an object-oriented interpretation of the three original models, FRBR, FRAD, FRSAD. It was decided last year to take FRBROo version 2 through the worldwide review and IFLA standards approval process. Before going out for review, the museum community suggested some further changes leading to version 2.2. The review was held during the spring of 2015. Comments from the worldwide review are now being compiled. In parallel, an extension of FRBROo for continuing resources, PRESSoo, (introduced during the 2013 WLIC in Singapore) also went through worldwide review and will be taken through the approval process to become an IFLA standard. The Review Group hope that these will be ready for the Standards Committee to review in 2016.

See http://www.ifla.org/files/assets/cataloguing/frbrg/activities_2014-15.pdf for more details of the FRBR Review Group activities during the past year.

3.2 Report from ISBD

Mirna Willer, outgoing Chair of the ISBD Review Group, reported on the work of the group.

A consolidated version of ISBD was published in 2011 and the group has started discussions about a revision in 2016, five years later. The results of the survey of the use of ISBD carried out in 2014 and finalized in 2015 will be compiled for discussion with the Cataloguing Section on how to proceed with the revision process and an extra meeting has been arranged during the WLIC for this discussion. The Bibliography Section will also be consulted. Progress in these discussions will be reported back to the Standards Committee.

The focus of work for the next year is in two directions – first to look into linked data, and second, FRBR compliance.

Regarding linked data, the ISBD linked data study group has been established: <http://www.ifla.org/node/1795>. In June/July 2015 the unconstrained elements were published in the Open Metadata Registry. Mappings between ISBD and FRBR, RDA and RDA Onix have been completed and published.

Regarding the second direction, whether ISBD can be expressed in the language of FRBR, the work was started last year on ISBD to FRBR mapping and they will wait for the consolidated FRBR model to be completed to see whether certain things would need to be changed.

Gaëlle Bequet reported that the ISSN manual was released in January 2015 and the ISSN standard will be revised in 2016. Work will start on the revision in October at the ISSN Directors meeting and ISSN Review Group meeting in Belgrade, so it will be important to coordinate. There is no longer an ISBD representative on the ISSN so Mirna and Gaëlle will discuss a replacement.

Action: Mirna Willer to report to HQ the name of the ISBD representative to the ISSN.

A member of the Standards Committee asked how the ISBD group sees the future of ISBD in relation to the increasing uptake of RDA.

The following points were raised and discussed:

Mappings between ISBD and RDA have already been made and each has its strengths and purposes. Increasing use of RDA raises the question of whether ISBD should be developed as a basis for using RDA or developed as it is. The value of any effort must be balanced against the resources available (both financial and volunteer availability). The IFLA Governing Board is not comprised of members with expertise in this area and they need to be made aware of issues that exist, so decisions will not be taken by them without input and advice from the community. As with the work of the former Namespaces Group, by making the ISBD and FRBR groups and their work more visible and understood by the Governing Board, decisions can more easily be made to support the work.

IFLA's relationship and collaboration with external groups could be developed and is on the list of items the Standards Committee will take forward, with some perhaps delegated to LIDATEC, for example, with W3C. Important liaison relationships already exist for various areas of work in ISO and for ISBN. The effort required is not taken for granted. IFLA's standards are freely available which helps improve uptake but the absence of revenue means that supporting structures will always be made up of volunteer effort. Each standard-issuing body has its own niche but there are benefits for all in working together.

Patrice Landry pointed out that in his analysis of download statistics, FRBR and ISBD account for about 20% of all downloads in the last two years over a total of about 46 IFLA standards. This indicates widespread use but to understand what kind of use is being made (whether translations or use of the standard itself) there needs to be further investigation. He suggested

that a multi-group task force be set up to collect and analyse this information for presentation to the Governing Board.

Before leaving the meeting, Jennefer Nicholson thanked the Committee on Standards and outgoing Chair, Patrice Landry. The idea for the Committee was first proposed to the Governing Board whilst Patrice Landry was Chair of the Professional Committee and the GB recognized the importance of building the Committee to bring together this work. She thanked Patrice on behalf of the GB and HQ for his work saying he had more than fulfilled the brief that the GB had given him and it was thanks also to everyone present that the work had been successful.

3.3 Report from Permanent UNIMARC Committee (PUC)

Maria Inês Cordeiro had sent apologies. No report was received.

4. Review of IFLA Review/Working/Task Groups – governance and structure of ISBD and FRBR

Following the completion of the review of the Namespaces Technical group resulting in the formation of LIDATEC, the Committee will start the review of the ISBD and FRBR groups. The Governing Board has been reviewing its Strategic Programmes and so asked the Committee to also include UNIMARC in its review. The review should encompass the purpose, structure, membership and functioning of the groups, including their financial and other resource requirements, visibility and reporting within the IFLA structure, and long-term projections for the groups.

As he had already laid some foundations for this work whilst Chair, Jan Richards asked Patrice Landry if he would continue working on this and produce the initial report for the Committee. He assured the Cataloguing Section that he would work with them on this review.

Action: Patrice Landry to produce initial review report on ISBD, FRBR and UNIMARC.

5. IFLA standards procedures manual – revision.

The Committee agreed that the procedures manual needs revising and that particularly the Sections that have used the manual will be consulted for their views on the manual and the procedures.

6. Relationships with relevant external bodies

6.1 ISO TC/46

Paola Manoni, who had sent apologies, submitted a report of the annual meeting in Beijing, 1-5 June 2015:

<http://www.ifla.org/files/assets/standards-committee/meetings/standards-committee-2015-08-15-20-iso-tc46-2015-report.pdf>

6.2 ISBN

Neil Wilson, who had sent apologies, submitted a report of the ISBN Board Meeting, April 2015: <http://www.ifla.org/files/assets/standards-committee/meetings/standards-committee-2015-08-15-isbn-board-meeting-summary.pdf>

Any Other Business

- 1) Frederick Zarndt alerted the Committee that he and Patrice Landry will meet with members of the Law Libraries Section to discuss a question about digital authentication of primary government and legal resources (how to tell if a document is official or not).
- 2) Mirna Willer asked if LIDATEC was now taking care of bibliographic standards issues in place of the IT Section which historically had been involved in this issue. Lars Svensson is Chair of both IT and LIDATEC so explained that the Section was now focusing on the take-up of new IT trends in the library community whereas LIDATEC would indeed be responsible for the technical issues regarding bibliographic standards. As he is on both committees it was easy to link IT with LIDATEC at present but this may need a more explicit solution in future.
- 3) Miriam Säfstrom reported that the Cataloguing and Bibliography Committees would like to ask if LIDATEC would be taking responsibility for MuldiCat. Patrice was aware of the proposal but did not have an answer just yet.

The first meeting was closed.

Meeting 2

Jan Richards opened the second meeting of the Committee and welcomed the new members and other observers.

1. Report from LIDATEC first meeting

Lars Svensson, Chair, reported that the meeting had been long and detailed so he focused on the main outcome. An action plan for the sub-committee will be drafted in September. The sub-committee's top priority will be to look at a stable infrastructure for the procedures and processes for the translation, updating and general lifecycle of the IFLA standards that go into namespaces, for the Standards Committee to discuss in October in order to produce a report for the Governing Board by mid-November.

2. CoS Open programme

Approximately 300 people attended the Committee's open session and the papers delivered were extremely interesting and should be promoted for wider reading after the Congress.

3. Work plan 2015-2016

The following were identified as priorities for work for the Committee:

- 1) Review of Procedures Manual

- 2) Audit and identification of updates to IFLA standards.
- 3) Downloads of IFLA standards: analysis of data by a task group
- 4) Review of FRBR and ISBD Review Groups
- 5) Organising IFLA standards in the IFLA Library
- 6) Liaison with other standards organisations
- 7) Define open programme for WLIC 2016 in Columbus.
- 8) Investigate status of MulDiCat

These will be detailed further in a separate action plan.

4. CoS open programme WLIC 2016

Some ideas were proposed for the open programme for WLIC 2016:

- Case studies on use of IFLA guidelines, how revisions are being carried out, and summary of overall usage of standards from the Committee. This ties in with the Committee's workplan activities.
- Exposing library metadata to the WWW search engines.
- General overview of IFLA standards, which kind of standards they are, which are too old. Include an explanation of the function of the committee.
- Once SurveyGizmo is available, we might run a survey on standards use maybe for a programme in 2017.

5. Planning for Skype call(s) during the year.

The Committee agreed to rely on Basecamp and email for the majority of communication during the year. Small working groups might use Skype but it has not proved to be very successful for bigger groups and the time zones of the Committee members will make it difficult to schedule convenient times.

6. Any Other Business

Updates from other events since the first meeting of the Committee:

- Cataloguing Section has decided to form a PRESoo Review Group and would welcome anyone else interested in taking part in maintenance of PRESoo to join.
- A Skype presentation was set up at the last minute with a staff member from Wikipedia to discuss how IFLA and Wikipedia might work together in future. As the room where this was arranged was small, participants were limited. Patrice Landry represented the Standards Committee and there was a short discussion on how IFLA standards might be better profiled in Wikipedia. Stuart Hamilton will follow up on this meeting and Jan Richards is informed to be able to take this forward.
- In May 2015 the Standards Committee endorsed the Metropolitan Libraries proposal for Guidelines for Statistical Reporting for Public Libraries. Patrice Landry, who is now on the Statistics Section Standing Committee, met with them to talk further about this.

The meeting was closed by Jan Richards.

Mid-year project report (Code: 3-13-1-15)

FRBR Consolidation

July 26, 2015

The FRBR Consolidation Editorial Group (CEG) held a dedicated 3-day meeting April 22-24, 2015, hosted by the Bibliothèque nationale de France, attended by all 3 current members. Two members submitted expenses, for a total of approximately 1900 euros of the 2000 allotted. During this meeting the definitions, full scope notes, and examples for entities, attributes, relationships which had been drafted and exchanged prior to the meeting, were examined and corrected in detail, as well as the use cases for the user tasks. Substantial progress was also made on the additional explanatory text to be included in the FRBR-LRM model definition.

Subsequently the CEG completed the chapters planned for the model definition document (with a few exceptions noted), which consists of the following chapters:

- ch.1: Introduction (administrative preface, some aspects to be filled in)
- ch.2: Methodology
- ch.3: Users and User Tasks
- ch.4: Model Overview (diagrams to be added)
- ch.5: Model Definition
 - section 5.1: Entities (the examples still need to be filled out)
 - section 5.2: Attributes (complete)
 - section 5.3: Relationships (examples still to be filled out)
- ch.6: Aggregates and Serials
- ch.7: Mapping of attributes and relationships to user tasks (to be added if RG considers useful)
- ch.8: Sources consulted

The CEG also prepared transition mappings for user tasks, entities, attributes, relationships. These mappings detail each element in FRBR, FRAD, FRSAD and indicate exactly what element in FRBR-LRM corresponds to it, or otherwise explain the outcome for that element. The mappings are not part of the consolidated model, they are intended to assist in the assessment of the consolidation outcomes during world-wide review, and subsequently assist in transitioning applications, including the IFLA FRBR namespaces.

In early July 2015, the CEG circulated to the FRBR RG the draft of the FRBR-LRM model definition document (58 pages), as well as drafts of all the transition tables (64 pages). These documents will be considered in-depth at the Friday August 21, 2015 all-day meeting of the FRBR RG planned for Cape Town.

Considering the length of the documents and the extent of the development, it is expected that the FRBR RG will have numerous comments, including comments of substance, during the August 21st meeting. The CEG fully expects to require a meeting in the fall to incorporate the comments from the FRBR RG into the FRBR-LRM document and in the transition tables, so that the world-wide review of FRBR-LRM can be held in early 2016. The CEG proposes to hold this meeting concurrently with the 34th CIDOC CRM SIG meeting, scheduled for October 6-9, 2015 at the University of Crete in Heraklion, Greece, where we can obtain meeting space. This timing offers the additional opportunity to present an overview of the FRBR-LRM model to the CIDOC CRM-FRBR Harmonization working group, benefiting from their comments while starting the analysis that will be required to update FRBRoo once FRBR-LRM is approved.

Notes of International ISBN Agency Board Meeting

Conference room 304, Olympia, London Book Fair;

Thursday 16 April 2015

Neil Wilson, IFLA representative

Present:

Ronald Schild (Chair)
Piero Attanasio
Jens Bammel
Beat Barblan
Maarit Huttunen
Miguel Jiménez
Alenka Kanič
Jonathan Nowell
Carol Riccalton
Neil Wilson (IFLA representative)
Stella Griffiths
Nick Woods
Hartmut Walravens (*Item 4*)

Apologies:

Henri Barthel
Bernardo Jaramillo Hoyos
Olaf Winsløw

1. Review of Management Report

Carol Riccalton asked about the position in the Maldives where government approval was now required before the publication of literature, noting her concern at this rule. Stella agreed with the concern, but advised that the agency had reassured her that all publications that qualified for ISBN would receive ISBN. There are already other agencies where there are concerns over the use of ISBN as a tool for censorship. The Board agreed that the IIA should continue to monitor the situation in Maldives and other places where freedom to publish is being inhibited.

2. Global Register of Publishers

Stella advised that the Global Register of Publishers went online in October 2014. Usage seems to be increasing well. The '2015 PIID' (based on data provided in summer 2014) is the last that De Gruyter will publish.

3. Revision of ISBN Standard

a) Update on ISO Working Group progress

Although work on the revision of the ISBN standard is progressing well, Stella advised that a major issue was ISO's insistence upon the removal of any reference to registration agencies in the standard. Ronald asked for the reasons for ISO's stance and Stella advised that it was because ISO has no contract directly with the registration agencies, only with the IIA, though this position takes no account of the fact that ISBN has been operating in this manner for years without problems. Stella did note that the ISO Technical Program Manager, Mary-Lou Pelaprat, had very recently indicated that it might be possible to make an exception. Beat agreed that, if the group of registration authorities for the standards within SC9 (ISNI, ISTC, ISSN etc.) – who all operate the same way – could make a joint appeal then this should be considered.

b) ISBN Users' Manual

Alongside the Working Group for the revision of the standard, an ad hoc group is looking at making revisions to the Users' Manual. The latest draft now includes sections about self-publishers and the responsibilities of registrants. Given the removal of registration agencies from the Standard and increasing publisher non-compliance, it has been proposed to make at least brief reference in the Manual to *possible sanctions* such as an agency refusing to assign further ISBNs if the publisher does not supply them with adequate metadata. The Board agreed that this was probably a necessary step and that it should be further discussed with the national ISBN agencies at the AGM in September.

4. ISMN

Hartmut Walravens, Chairman of the Board of the International ISMN Agency outlined the history of the increasing cooperation between ISBN and ISMN and their respective registration authorities. Ronald advised that he felt that cooperation between the two identifiers was certainly beneficial. The Board agreed to take the opportunity to discuss the situation of ISMN with the national ISBN agencies further at the AGM later this year.

5. ISBN AGM

a) Update on AGM 2015 arrangements

The next meeting will be held in Bali, Indonesia on Sunday 20 September. It was hoped that agencies based in the general vicinity would be persuaded to participate and a seminar will be held on 20 September. A provisional agenda had been circulated in advance and it was agreed that it would be appropriate for there to be a presentation by the local publishers' association about the local industry situation. In addition it was agreed to include presentations on the rise of self-publishing and the issue of foreign publishers trying to obtain ISBNs from Canada.

b) Future AGMs

It has already been agreed that the 2016 AGM will be held in **Vienna, Austria**.

6. ISBN – 50th anniversary

Stella asked the Board for their thoughts about ways in which we could mark the 50th anniversary of the concept of standard book numbering (*noting that this is not the 50th anniversary of the ISO standard which is later*). Stella referred to World Standards Day on 14 October. Ronald liked the idea of tying it in with this day, but argued that the Tuesday of that week would be much easier logistically. That day, EDItEUR is likely to be holding a supply chain event in Frankfurt just before the Book Fair and Ronald proposed that we could organise something during that meeting. Carol Riccalton observed that the ISSN was celebrating a 40-year anniversary this year, and was doing so by publishing a series of journal articles. Jonathan suggested that perhaps a video could be put together – this could include 'talking heads' from the early days of standard book numbering. We should try to put a full press kit together to promote the anniversary.

2015

TC46 on Information and documentation has been leading efforts related to information management since 1947. Standards¹ developed under ISO/TC46 facilitate access to knowledge and information and standardize automated tools, computer systems, and services relating to its major stakeholders of: libraries, publishing, documentation and information centres, archives, records management, museums, indexing and abstracting services, and information technology suppliers to these communities. TC46 has a unique role among ISO information-related committees in that it focuses on the whole lifecycle of information from its creation and identification, through delivery, management, measurement, and archiving, to final disposition.

The following report summarizes activities of TC46, SC4, SC8 SC9² and their resolutions of the annual meetings³, in light of the key-concepts of interest to the IFLA community⁴.

1. SC4 Technical interoperability

1.1 Activities

Standardization of protocols, schemas, etc. and related models and metadata for processes used by information organizations and content providers, including libraries, archives, museums, publishers, and other content producers.

1.2 Active Working Group

WG 11 – RFID in libraries

WG 12 – WARC

WG 13 – Cultural heritage information interchange

WG 14 – Interlibrary Loan Transactions

1.3 Joint working groups

¹ For the complete list of published standards, *cfr.* Appendix A.

² ISO TC46 Subcommittees: TC46/SC4 Technical interoperability; TC46/SC8 Quality - Statistics and performance evaluation; TC46/SC9 Identification and description; TC46/SC 10 Requirements for document storage and conditions for preservation - *Cfr* Appendix B.

³ The 42nd ISO TC46 plenary, subcommittee and working groups meetings, Beijing, June 1-5 2015.

⁴ Abbreviations used in the text: CD=Committee Draft / DIS=Draft International Standard / FDIS= Final Draft International Standard / JWC=Joint Working Group / NP= New Project / NWI= New Work Item / SC=Subcommittee / TC=Technical Committee / TS=Technical Specification / WG=Working Group / CIB=Committee-Internal Ballot.

EPUB (Joint JTC 1/SC 34-TC46/SC4-IEC/TC 100/TA 10)
Revision of ISO 639 (Joint ISO/TC 37/SC 2 - ISO/TC46/SC4)

1.4 Standards Completed since Last Meeting

- ISO 21127:2014
- ISO 18626:2014
- ISO 28560 parts 1-3:2014
- ISO/TS 28560:2014
- ISO 10161-1, ISO 10161-2 and ISO 10160

1.5 News about standards and activities

ISO 18626 Interlibrary Loan Transactions

Background:

The new standard ISO 18626 Information and documentation — Interlibrary Loan Transactions was published by ISO on the 15th of July 2014.

*A newsletter about ISO 18626 was introduced in April 2015; it can be accessed:
[http://us10.campaign-
archive1.com/?u=4dec152ed388807c72dc8a740&id=37e83c00e9&e=d793cbee11](http://us10.campaign-archive1.com/?u=4dec152ed388807c72dc8a740&id=37e83c00e9&e=d793cbee11)*

Documentation/Presentations/Publications

- *The future of interoperability for ILL and resource sharing* by Clare MacKeigan (Relais International, Canada). Presentation: Great Lakes Resource Sharing Conference, Perrysburg, Ohio. June 5 & 6, 2015.
ISO 18626:2014 Information and documentation -- Interlibrary Loan Transactions
http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=63064
- *PRESS RELEASE: ISO 18626:2014 Interlibrary Loan Transactions*. ISO TC46/SC4/WG14 Interlibrary Loan Transactions.
http://illtransactions.org/pdf/ISO_18626-press_release_2014-07-17.pdf
- *The future of interoperability for ILL and resource sharing* by Clare MacKeigan (Relais International, Canada). Presentation: IFLA Document Delivery Resource Sharing Satellite Meeting, Nancy. August 13 & 14, 2014
- *The future of interoperability for ILL and resource sharing* by Clare MacKeigan (Relais International, Canada). Presentation: Northwest ILL Conference, Portland, Oregon. September 11 & 12, 2015.
- *The future of interoperability for ILL and resource sharing* by Clare MacKeigan. In *Interlending and Document Supply* Volume 42, Issue 2-3, 2015, p. 105-108.
- *New ISO standard for ILL transaction, ISO 18626. The future of interoperability for ILL and resource sharing* by Clare MacKeigan (Relais International, Canada) & Leif Andresen (The Royal Library, Denmark) - Presentation: 11th Nordic ILL conference. Oslo. October 15th-17th 2014 – To Get or Not to Get!
[http://referanse.norskbiotekforening.no/wp-
content/uploads/sites/7/2014/10/MacKeigan-Andresenpdf.pdf](http://referanse.norskbiotekforening.no/wp-content/uploads/sites/7/2014/10/MacKeigan-Andresenpdf.pdf)

- *New ILL Standard/Protocol*. Presentation National Library of Australia, October 30th 2014. Patricia Burke (OCLC)
<http://www.nla.gov.au/librariesaustralia/files/2014/12/2014-OCLC-ISO-slides-New-Standard.ppsx>
- *Introduction to the ISO 18626:2014 Press Release and Interview with Leif Andresen*. In: Journal of Interlibrary Loan, Document Delivery & Electronic Reserve. Volume 24, Issue 3-4, 2014
<http://www.tandfonline.com/doi/abs/10.1080/1072303X.2014.983215>
(Authorization needed).
- *Nye standarder for lånesamarbejdet / Leif Andresen*. In: Revy. Volume 38, No 1, 2015 (in Danish)
<http://rauli.cbs.dk/index.php/revy/article/view/4742>

Implementations:

- Future implementations: Relais International in 2016 and OCLC in 2017.
- The Danish Bibliographic Centre (DBC) has implemented ISO 18626 in a test version (spring 2015) to prepare the interaction with local library systems later this year. DBC manage the national union catalogue and will receive and deliver ILL transactions in ISO 18626. DBC also support the Danish implementation in XML format of ISO 10160/10161 with Z39.50 extended service as transport protocol. DBC act as switchboard with conversion ISO 18626 to ISO 10160/10161 and vice versa.

WG14 website:

ISO 18626 Interlibrary Loan Transactions. ISO TC46/SC4/WG14 Interlibrary Loan Transactions <http://illtransactions.org/> hosted by Relais International.

EPUB 3 (Joint Working Group JTC 1/SC 34-TC46/SC4-IEC/TC 100/TA 10 WG: EPUB)

Background:

Following decision of subcommittee JTC1⁵/SC34/AHG4 for EPUB3, Korean NB made its national standards for EPUB3 in 2012 and submitted seven parts of EPUB3 specification as Draft Technical Specification with Explanatory Report in February 2013⁶.

⁵ JTC1= Joint Technical Committee 1 on Information technology

⁶ JTC1 N11947 – Agreed Disposition of Comments on ISO/IEC 30135-1, Digital publishing - Part 1:

EPUB3 Overview

JTC1 N11948 – Agreed Disposition of Comments on ISO/IEC 30135-2, Digital publishing - Part 2:

Publications

JTC1 N11949 – Agreed Disposition of Comments on ISO/IEC 30135-3, Digital publishing - Part 3:

Content Documents JTC1 N11950 – Agreed Disposition of Comments on ISO/IEC 30135-4, Digital publishing - Part 4:

Open Container Format

JTC1 N11951 – Agreed Disposition of Comments on ISO/IEC 30135-5, Digital publishing - Part 5:

Media Overlay

JTC1 N11952 – Agreed Disposition of Comments on ISO/IEC 30135-6, Digital publishing - Part 6:

EPUB Canonical Fragment Identifier

JTC1 N11945 – Agreed Disposition of Comments on ISO/IEC 30135-7, Digital publishing – Part 7:

EPUB3 Fixed-Layout Documents

These ballots were closed in May 5, 2013. Last year SC4 instructed its Secretariat and its Chair to discuss with the TC46 Secretariat and the ISO Central Secretariat to see if a resolution could be found to advance the JWG's work toward publication of the IDPF EPUB standard as an ISO/IEC TS.

Publication of ISO/IEC TS 30135 – EPUB3

ISO and IDPF (International Digital Publishing Forum) finally agreed to publish the entire set of ISO/IECTS 30135 and published on ISO web site in November 5, 2014. The titles of each document are as follows:

- ISO/IEC TS 30135-1 Information technology - Digital publishing - Part 1: EPUB3 Overview
- ISO/IEC TS 30135-2 Information technology - Digital publishing - Part 2: Publications
- ISO/IEC TS 30135-3 Information technology - Digital publishing - Part 3: Content Documents
- ISO/IEC TS 30135-4 Information technology - Digital publishing - Part 4: Open Container Format
- ISO/IEC TS 30135-5 Information technology - Digital publishing - Part 5: Media Overlay
- ISO/IEC TS 30135-6 Information technology - Digital publishing - Part 6: EPUB CanonicalFragment Identifier
- ISO/IEC TS 30135-7 Information technology - Digital publishing - Part 7: EPUB3 Fixed-LayoutDocuments

According to terms of reference of the JWG in JTC1 N11613 'SC34 Request for Establishment of Joint Working Group for EPUB with IEC TC100/TA10 and ISO/TC46/SC4', the JWG has responsibility for "the maintenance of EPUB Technical Specifications, and for any directly-related projects as may subsequently be proposed."

ISO/NP 20614 Data Exchange Protocol for Interoperability and Preservation (DEPIP)

Scope of NP 20614

DEPIP aims at giving a standardized framework for the various information exchanges (data and its metadata) between repositories and their partners. Interchanges between several repositories (repositories integrated in organizations, public repositories, storage service suppliers) will also be considered.

It aims to promote the interoperability between the information systems of these actors and to allow for a better harmonization of software developments. Its origin is to be found in the development of e-administration

in France and the need to propose a standardized framework for data exchanges with the permanent archives repositories. The current version of this NWIP gives high level definitions and technical guidance for the development of data exchanges protocol following several models based on xml schemas.

SC4 Plenary: Resolution 2015/04 about the WG 15 Metadata and protocols for long term preservation

ISO/TC46/SC4

- instructs the SC4 secretariat to contact and establish a liaison with ISO/TC 20/SC 13 responsible for OAIS standards, for involvement in WG 15 work,
- instructs the SC4 secretariat to circulate a committee draft ballot (CD) for ISO/NP 20614 Data Exchange Protocol for Interoperability and Preservation by the end of 2015.

WG12 and revision of ISO 28500 - WARC file format

WG12 will meet by the end of 2015 to revise ISO 28500 based upon the comments proposed by the International Internet Preservation Consortium (IIPC),
WG12 will submit the revised draft ISO 28500 for DIS ballot to the SC4 secretariat, by May 1st, 2016

Revision of ISO 639 Codes for the representation of names of languages

Background:

At the beginning of 2014, ISO/TC46/SC4 and ISO/TC 37/SC 2 were authorized by their respective parent TC to establish a Joint Working Group (JWG07) between ISO/TC46/SC4 and ISO/TC 37/SC 2 to review/revise the provisions (i.e. textual parts) of ISO 639. In May 2014, the first ISO/TC 37/SC 2/JWG07 meeting was held at the TC46 annual meetings held in Washington, D.C. to discuss a business case for revising ISO 639. At the meeting, the JWG07 moved to adopt a resolution that TC46/SC4 nominate a Convenor for the JWG, with TC37/SC2 taking on the role of Administrator. TC46/SC4's Convenor nomination, Peter Constable, was approved by ISO/TC46/SC4 ballot vote in June 2014. The JWG07 met again in July 2014 at the ISO/TC 37 annual meetings held in Berlin, where ISO/TC 37/SC 2 passed resolutions to initiate the withdrawal of ISO 639-6 (subsequently withdrawn by TC 37/SC 2 CIB vote in October 2014); and to create a project team to begin work on revisions to parts 1 to 5. The JWG07 also moved to name two co-Convenors for the ISO 639 JWG: Peter Constable (representing TC46/SC4) and Christian Galinski (representing TC 37/SC 2). The project team is being led by Peter Constable, who is the editor of the new draft of the combined ISO 639 standard.

Actions:

A working first draft of the revision is pending.

Future liaison with DDI Alliance

SC4 will invite DDI Alliance to establish a category A liaison⁷ with ISO/TC46/SC4 and to standardize DDI metadata format in ISO.

WG13 Cultural heritage information interchange

SC4, noting the successful completion of WG13 and the lack of further necessary work related to this project, resolves to disband ISO/TC46/SC4/WG 13 – Cultural

⁷“ A” liaisons has the right to participate in meetings and to comment on drafts but it can't vote.

heritage information interchange

2. SC8 Quality – Statistics and performance evaluation

2.1 Activities

Standardization of quantitative and qualitative data for the management of information organizations and content providers, e.g., libraries, archives, museums and publishers.

2.2 Active Working Groups

WG 2 - International library statistics

WG 4 - Performance indicators for libraries

WG 10 – Methods and procedures for assessing the impact of libraries

WG 11 – International museum statistics

WG 12 – International archive statistics

2.3 News about standards and activities

WG2 - Library statistics

WG2 met in Washington on May 7, 2014, to discuss new developments for a next revision of ISO 2789 - International library statistics.

SC8 requests experts of WG 2 to collect contributions for the revision of ISO 2789 and submit them at the next October Vienna WG2 meeting.

WG 4 - Performance indicators for libraries

WG4 met in Washington on May 7, 2014, to discuss new developments for a next revision of ISO 11620 - Library performance indicators

SC8 requests experts of WG 4 to collect contributions for the revision of ISO 11620 and submit them at the next October Vienna WG4 meeting.

WG10 - Methods and procedures for assessing the impact of libraries

WG10 met in Washington on May 8, 2014, to discuss new developments for a next revision of ISO 16439 - Methods and procedures for assessing the impact of libraries.

SC8 requests experts of WG 10 to collect contributions for the revision of ISO 16439 and submit them at the next October Vienna WG10 meeting.

WG 11 – International museum statistics

ISO 18461 - International museum statistics: a Committee draft was prepared and was on ballot from July 23rd until September 23rd 2014.

A DIS will be published in summer 2015.

SC8 requests WG 11 to work on the comments received during the ballot on ISO/DIS 18461 and to finalize the document for publication at the next October Vienna meeting.

WG 12 – International archives statistics

SC8 requests WG 12 to prepare a working draft of ISO 19580 - International archives statistics at the October meeting in Vienna.

3. SC9 Identification and Description

3.1 Activities

Standardization of information identifiers, description and associated metadata and models for use in information organizations (including libraries, museums and archives) and the content industries (including publishing and other content producers and providers).

3.2 Active Working Group

WG 2 - International standard work code (ISWC)
WG 4 - International Standard Book Number (ISBN)
WG 10 - International Standard Recording Code (ISRC)
WG 11 - International standard link identifier (ISLI)
WG12 - Indexes and indexing
WG13 - International library item identifier(ILII)
Ad hoc Identifiers Interoperability Group
Ad hoc Registration Authorities

3.3 New Work Items

One new work item was balloted since the last meeting for a new standard for an International Library Item Identifier (ILII)

3.4 New Publication [1 pending]

ISO 17316, *Information and documentation – International standard link identifier (ISLI)*: publication will occur after a Registration Authority is in place.

3.5 News about standards and activities

ISO 2108 - International Standard Book Number: revision of the standard

The ISBN Standard was due to come up for Systematic Review in 2013, but at the TC46/SC9 plenary meeting in Paris in June 2013 the International ISBN Agency proposed that the Standard should be revised since it was already clearly justified for a number of reasons including developments in digital and multi-media products. This proposal was agreed and a resolution to that effect was passed at that meeting.

The Working Group comprises thirty six experts and one organisation in liaison. The project is on the 3 year track. The Convenor of the Working Group is Stella Griffiths, Executive Director of the International ISBN Agency.

So far the Working Group has met 7 times by WebEx, and held a face to face meeting during the TC46 Plenary week in Washington in 2014. There was a second face to face meeting during the TC46 Plenary week in Beijing in 2015 at which it is

hoped that comments to the Committee Draft will be available for discussion.

The Committee Draft was opened for ballot on 3 February and will close on 3 April, with the DIS due towards the end of the year.

WG12 Indexes and Indexing

Background:

At the Washington, DC plenary meeting a resolution was passed to establish a single working group to perform a gap analysis between ISO 999 (Guidelines for the content, organization and presentation of indexes) and ISO 5963 (Methods for examining documents, determining their subjects, and selecting indexing terms) and determine whether a single standard can address all stakeholder needs. Following this evaluation, the standard(s) will be revised as needed.

A call for participation was issued to the members from 12 February 2015 through 12 March 2015. Members were also asked to identify any expert nominees who were willing to be the convenor for this Working Group. A total of 11 experts were identified from 7 countries, with one individual willing to be convenor (United Kingdom).

Actions:

The Chair and Secretary are following up to confirm a convenor, which the members will be asked to approve.

WG13 - International library item identifier(ILII) – ISO/WD20247

A new work item proposal was issued for ballot from 20 August 2014 through 20 November 2014 to develop a new standard for an International Library Item Identifier (ILII). The proposal was approved by the members. The convenor has begun communications with the WG and the WD20247 will be submitted for CD ballot by this year.

ISO10957:2009 – International Standard Music Number

SC9 reaffirms ISO 10957:2009 but instructs the Registration Authority to further review the standard as soon as the ISO 2108 ISBN standard text is stable, and to report to SC9 within three months of the ISO 2108 final ballot. This work should align the two standards and respond to comments received in the systematic review.

ISO 21047:2009– International Standard Text Code (ISTC)

SC9 reaffirms ISO 21047– International Standard Text Code (ISTC), but requests the Registration Authority to forward a New Work Item Proposal by December 31, 2015 to revise the standard to address stakeholder needs regarding work identification.

Fast track standardization in ISO TC46/SC9 of projects involving cataloging principles and practices

SC9 would like to invite IFLA and the American Library Association Committee of Principals for a fast track standardization in ISOTC46/SC9 of projects involving cataloging principles and practices.

4. Under the responsibility of TC46

4.1 Active Working Groups

WG 2 - Coding of country names and related entities

WG 3 - Conversion of written languages

WG 4 - Terminology of information and documentation

4.2 News about standards and activities

Publication of revised ISO 7098 - Romanization of Chinese

TC46 resolves to circulate a CIB to publish the DIS in response to the positive DIS ballot.

Future revision of ISO 5127 - Foundations and Vocabulary of information and documentation

Once the current ISO DIS 5127 has been published, a CIB ballot will be circulated in order to launch the revision.

In addition TC46 requests WG4 -Terminology of information and documentation to study options for frequent updating and continued monitoring of terminology and terminological coordination within TC46 in view of setting up a database and report its findings at the next plenary meeting.

Revision of ISO 3166 Parts -1, -2, and -3

ISO/TC46 requests ISO/CS to submit a draft revision of ISO 3166 Parts -1, -2, and -3 to reflect the changes made to normative code elements available on ISO Online Browsing Platform. Once received, TC46 instructs its secretariat to circulate a CIB ballot on this proposal.

ISO 8 - Presentation of periodicals

Background:

Last year TC46 resolved to disband WG 7. TC46 invited ANSI/NISO to submit a NWIP to revise the scope of ISO 8 - Documentation -- Presentation of periodicals, to include electronic periodicals based on the NISO Recommended Practice for the Presentation and Identification of E-Journals (PIE-J) for consideration by TC46 by October 1, 2014.

Actions:

ISO/TC46 resolves to submit the NWIP sent by ANSI/NISO following Resolution 2014-09 to revise the scope of ISO 8 - Presentation of periodicals to include electronic periodicals based on the NISO *Recommended Practice for the Presentation and Identification of E-Journals (PIE-J)* for ballot by July 2015.

5. Standards under development

5.1 Under the responsibility of TC46

ISO/DIS 5127

Information and documentation -- Foundation and Vocabulary

ISO/DIS 7098

Information and documentation -- Romanization of Chinese

ISO/WD 20674

Transliteration of Thai-Tham-Isan and Thai-Noi

5.2 Under the responsibility of SC4

ISO/NP 20614

Data Exchange Protocol for Interoperability and Preservation

ISO/NP 28500

Information and documentation -- WARC file format

5.3 Under the responsibility of SC8

ISO/CD 18461

International museum statistics

ISO/NP 19580

Information and documentation -- International archives statistics

5.4 Under the responsibility of SC9

ISO/CD 2108

Information and documentation -- International standard book number (ISBN)

ISO/NP 3901

Information and documentation -- International Standard Recording Code (ISRC)

ISO/WD 20247

Information and documentation -- International library item identifier(ILII)

5.5 Under the responsibility of SC10

ISO/DIS 11799

Information and documentation -- Document storage requirements for archive and library materials

ISO/DTS 18344

Effectiveness of paper deacidification processes

ISO/NP TR 19814

Information and documentation -- Holdings Management

ISO/NP TR 19815

Information and documentation -- Management of the environmental conditions for archive and library holdings

✓ **Appendix A: list of published standards (2014)**

ISO TC46 – Information and documentation

[ISO Sub-Committees: [TC46/SC4](#) Technical interoperability; [TC46/SC8](#) Quality - Statistics and performance evaluation; [TC46/SC9](#) Identification and description; [TC46/SC10](#) Requirements for document storage and conditions for preservation [TC46/SC 11](#) Archives/records management]

Standard	Under the responsibility of
ISO 10160:2015 Information and documentation -- Open Systems Interconnection -- Interlibrary Loan Application Service Definition	ISO/TC46/SC4
ISO 10161-1:2014 Information and documentation -- Open Systems Interconnection -- Interlibrary Loan Application Protocol Specification -- Part 1: Protocol specification	ISO/TC46/SC4
ISO 10161-2:2014 Information and documentation -- Open Systems Interconnection -- Interlibrary Loan Application Protocol Specification -- Part 2: Protocol implementation conformance statement (PICS) proforma	ISO/TC46/SC4
ISO 10324:1997 Information and documentation -- Holdings statements -- Summary level	ISO/TC46/SC9
ISO 10754:1996 Information and documentation -- Extension of the Cyrillic alphabet coded character set for non-Slavic languages for bibliographic information interchange	ISO/TC46/SC4
ISO 1086:1991 Information and documentation -- Title leaves of books	ISO/TC46
ISO 10957:2009 Information and documentation -- International standard music number (ISMN)	ISO/TC46/SC9
ISO 11108:1996 Information and documentation -- Archival paper -- Requirements for permanence and durability	ISO/TC46/SC10
ISO 11620:2014 Information and documentation -- Library performance indicators	ISO/TC46/SC8
ISO 11798:1999 Information and documentation -- Permanence and durability of writing, printing	ISO/TC46/SC10

and copying on paper -- Requirements and test methods	
<u>ISO 11799:2003</u>	<u>ISO/TC46/SC</u>
Information and documentation -- Document storage requirements for archive and library materials	<u>10</u>
<u>ISO 11800:1998</u>	<u>ISO/TC46/SC</u>
Information and documentation -- Requirements for binding materials and methods used in the manufacture of books	<u>10</u>
<u>ISO 11940:1998</u>	<u>ISO/TC46</u>
Information and documentation -- Transliteration of Thai	
<u>ISO 11940-2:2007</u>	<u>ISO/TC46</u>
Information and documentation -- Transliteration of Thai characters into Latin characters -- Part 2: Simplified transcription of Thai language	
<u>ISO 12083:1994</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- Electronic manuscript preparation and markup	
<u>ISO 14416:2003</u>	<u>ISO/TC46/SC</u>
Information and documentation -- Requirements for binding of books, periodicals, serials and other paper documents for archive and library use -- Methods and materials	<u>10</u>
<u>ISO 15511:2011</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- International standard identifier for libraries and related organizations (ISIL)	
<u>ISO 15706-1:2002</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International Standard Audiovisual Number (ISAN) -- Part 1: Audiovisual work identifier	
<u>ISO 15706-1:2002/Amd 1:2008</u>	<u>ISO/TC46/SC9</u>
Alternate encodings and editorial changes	
<u>ISO 15706-2:2007</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International Standard Audiovisual Number (ISAN) -- Part 2: Version identifier	
<u>ISO 15707:2001</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International Standard Musical Work Code (ISWC)	
<u>ISO 15836:2009</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- The Dublin Core metadata element set	
<u>ISO 15836:2009/Cor 1:2009</u>	<u>ISO/TC46/SC4</u>
<u>ISO 15919:2001</u>	<u>ISO/TC46</u>
Information and documentation -- Transliteration of Devanagari and related Indic scripts into Latin characters	
<u>ISO 15924:2004</u>	<u>ISO/TC46</u>
Information and documentation -- Codes for the representation of names of scripts	<u>1</u>
<u>ISO 16245:2009</u>	<u>ISO/TC46/SC</u>
Information and documentation -- Boxes, file covers and other enclosures, made from cellulosic materials, for storage of paper and parchment documents	<u>10</u>
<u>ISO 16439:2014</u>	<u>ISO/TC46/SC8</u>

Information and documentation -- Methods and procedures for assessing the impact of libraries <u>ISO 17316:2015</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International standard link identifier (ISLI) <u>ISO 17933:2000</u>	<u>ISO/TC46/SC4</u>
GEDI -- Generic Electronic Document Interchange <u>ISO 18:1981</u>	<u>ISO/TC46</u>
Documentation -- Contents list of periodicals <u>ISO 18626:2014</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- Interlibrary Loan Transactions <u>ISO 20775:2009</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- Schema for holdings information <u>ISO 21047:2009</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International Standard Text Code (ISTC) <u>ISO 2108:2005</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International standard book number (ISBN) <u>ISO 21127:2014</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- A reference ontology for the interchange of cultural heritage information <u>ISO 214:1976</u>	<u>ISO/TC46</u>
Documentation -- Abstracts for publications and documentation <u>ISO 2145:1978</u>	<u>ISO/TC46</u>
Documentation -- Numbering of divisions and subdivisions in written documents <u>ISO 2146:2010</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- Registry services for libraries and related organizations <u>ISO 215:1986</u>	<u>ISO/TC46</u>
Documentation -- Presentation of contributions to periodicals and other serials <u>ISO 233:1984</u>	<u>ISO/TC46</u>
Documentation -- Transliteration of Arabic characters into Latin characters <u>ISO 233-2:1993</u>	<u>ISO/TC46</u>
Information and documentation -- Transliteration of Arabic characters into Latin characters -- Part 2: Arabic language -- Simplified transliteration <u>ISO 233-3:1999</u>	<u>ISO/TC46</u>
Information and documentation -- Transliteration of Arabic characters into Latin characters -- Part 3: Persian language -- Simplified transliteration <u>ISO 2384:1977</u>	<u>ISO/TC46</u>
Documentation -- Presentation of translations <u>ISO 23950:1998</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- Information retrieval (Z39.50) -- Application service definition and protocol specification <u>ISO 25577:2013</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- MarcXchange <u>ISO 259:1984</u>	<u>ISO/TC46</u>

Documentation -- Transliteration of Hebrew characters into Latin characters <u>ISO 259-2:1994</u>	
Intelligent transport systems -- Account-based ticketing validation -- Part 2: Simplified transliteration <u>ISO 25964-1:2011</u>	<u>ISO/TC46</u>
Information and documentation -- Thesauri and interoperability with other vocabularies -- Part 1: Thesauri for information retrieval <u>ISO 25964-2:2013</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- Thesauri and interoperability with other vocabularies -- Part 2: Interoperability with other vocabularies <u>ISO 26324:2012</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- Digital object identifier system <u>ISO 2709:2008</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- Format for information exchange <u>ISO 27729:2012</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- International standard name identifier (ISNI) <u>ISO 27729:2012/Cor 1:2013</u>	<u>ISO/TC46/SC9</u>
<u>ISO 27730:2012</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International standard collection identifier (ISCI) <u>ISO 2789:2013</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- International library statistics <u>ISO 28500:2009</u>	<u>ISO/TC46/SC8</u>
Information and documentation -- WARC file format <u>ISO 28560-1:2014</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- RFID in libraries -- Part 1: Data elements and general guidelines for implementation <u>ISO 28560-2:2014</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- RFID in libraries -- Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962 <u>ISO 28560-3:2014</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- RFID in libraries -- Part 3: Fixed length encoding <u>ISO 3166-1:2013</u>	<u>ISO/TC46/SC4</u>
Codes for the representation of names of countries and their subdivisions -- Part 1: Country codes <u>ISO 3166-2:2013</u>	<u>ISO/TC46</u>
Codes for the representation of names of countries and their subdivisions -- Part 2: Country subdivision code <u>ISO 3166-3:2013</u>	<u>ISO/TC46</u>
Codes for the representation of names of countries and their subdivisions -- Part 3: Code for formerly used names of countries <u>ISO 3297:2007</u>	<u>ISO/TC46</u>
Information and documentation -- International standard serial number (ISSN) <u>ISO 3602:1989</u>	<u>ISO/TC46/SC9</u>
Documentation -- Romanization of Japanese (kana script)	<u>ISO/TC46</u>

<u>ISO 3901:2001</u> Information and documentation -- International Standard Recording Code (ISRC)	<u>ISO/TC46/SC9</u>
<u>ISO 4:1997</u> Information and documentation -- Rules for the abbreviation of title words and titles of publications	<u>ISO/TC46/SC9</u>
<u>ISO 5122:1979</u> Documentation -- Abstract sheets in serial publications	<u>ISO/TC46</u>
<u>ISO 5123:1984</u> Documentation -- Headers for microfiche of monographs and serials	<u>ISO/TC46</u>
<u>ISO 5127:2001</u> Information and documentation -- Vocabulary	<u>ISO/TC46</u>
<u>ISO 5963:1985</u> Documentation -- Methods for examining documents, determining their subjects, and selecting indexing terms	<u>ISO/TC46/SC9</u>
<u>ISO 6357:1985</u> Documentation -- Spine titles on books and other publications	<u>ISO/TC46</u>
<u>ISO 6630:1986</u> Documentation -- Bibliographic control characters	<u>ISO/TC46/SC4</u>
<u>ISO 690:2010</u> Information and documentation -- Guidelines for bibliographic references and citations to information resources	<u>ISO/TC46/SC9</u>
<u>ISO 7098:1991</u> Information and documentation -- Romanization of Chinese	<u>ISO/TC46</u>
<u>ISO 7144:1986</u> Documentation -- Presentation of theses and similar documents	<u>ISO/TC46</u>
<u>ISO 7154:1983</u> Documentation -- Bibliographic filing principles	<u>ISO/TC46</u>
<u>ISO 7220:1996</u> Information and documentation -- Presentation of catalogues of standards	<u>ISO/TC46/SC9</u>
<u>ISO 7220:1996/Cor 1:2001</u>	<u>ISO/TC46/SC9</u>
<u>ISO 7275:1985</u> Documentation -- Presentation of title information of series	<u>ISO/TC46</u>
<u>ISO 8:1977</u> Documentation -- Presentation of periodicals	<u>ISO/TC46</u>
<u>ISO 832:1994</u> Information and documentation -- Bibliographic description and references -- Rules for the abbreviation of bibliographic terms	<u>ISO/TC46/SC9</u>
<u>ISO 843:1997</u> Information and documentation -- Conversion of Greek characters into Latin characters	<u>ISO/TC46</u>
<u>ISO 8459:2009</u> Information and documentation -- Bibliographic data element directory for use in data exchange and enquiry	<u>ISO/TC46/SC4</u>
<u>ISO 8777:1993</u>	<u>ISO/TC46/SC4</u>

Information and documentation -- Commands for interactive text searching <u>ISO 9:1995</u>	
Information and documentation -- Transliteration of Cyrillic characters into Latin characters -- Slavic and non-Slavic languages <u>ISO 9230:2007</u>	<u>ISO/TC46</u>
Information and documentation -- Determination of price indexes for print and electronic media purchased by libraries <u>ISO 9706:1994</u>	<u>ISO/TC46/SC8</u>
Information and documentation -- Paper for documents -- Requirements for permanence <u>ISO 9707:2008</u>	<u>ISO/TC46/SC10</u>
Information and documentation -- Statistics on the production and distribution of books, newspapers, periodicals and electronic publications <u>ISO 9984:1996</u>	<u>ISO/TC46/SC8</u>
Information and documentation -- Transliteration of Georgian characters into Latin characters <u>ISO 9985:1996</u>	<u>ISO/TC46</u>
Information and documentation -- Transliteration of Armenian characters into Latin characters <u>ISO 999:1996</u>	<u>ISO/TC46</u>
Information and documentation -- Guidelines for the content, organization and presentation of indexes <u>ISO/DIS 5127</u>	<u>ISO/TC46/SC9</u>
Information and documentation -- Foundation and Vocabulary <u>ISO/DIS 7098</u>	<u>ISO/TC46</u>
Information and documentation -- Romanization of Chinese <u>ISO/NP 20614</u>	<u>ISO/TC46</u>
Data Exchange Protocol for Interoperability and Preservation <u>ISO/NP 28500</u>	<u>ISO/TC46/SC4</u>
Information and documentation -- WARC file format <u>ISO/TR 11219:2012</u>	<u>ISO/TC46/SC4</u>
Information and documentation - Qualitative conditions and basic statistics for library buildings -- Space, function and design <u>ISO/TR 14873:2013</u>	<u>ISO/TC46/SC8</u>
Information and documentation -- Statistics and quality issues for web archiving <u>ISO/TR 28118:2009</u>	<u>ISO/TC46/SC8</u>
Information and documentation -- Performance indicators for national libraries <u>ISO/TS 28560-4:2014</u>	<u>ISO/TC46/SC8</u>
Information and documentation -- RFID in libraries -- Part 4: Encoding of data elements based on rules from ISO/IEC 15962 in an RFID tag with partitioned memory <u>ISO/WD 20674</u>	<u>ISO/TC46/SC4</u>
Transliteration of Thai-Tham-Isan and Thai-Noi Standard and/or project	<u>ISO/TC46</u>

Appendix B: Structure

✓ ISO/TC46 Information and documentation

Scope:

Standardization of practices relating to libraries, documentation and information centres, publishing, archives, records management, museum documentation, indexing and abstracting services, and information science.

Working groups directly under ISO/TC46:

WG 2 Coding of country names and related entities

WG 3 Conversion of written languages

WG 4 Terminology of information and documentation

Organizations in liaison:

CIDOC, CISAC, DOI, EC, IAEA, ICA, ICSTI, IFLA, IIF, ISAN, ISOC, ISSN International Center, ITU, UN, UNCTAD, UNECE, UNESCO, UPU, WIPO

✓ TC46 Subcommittees:

ISO/TC46/SC4 Technical interoperability

Scope:

Standardization of protocols, schemas, etc., and related models and metadata for processes used by information organizations and content providers, including libraries, archives, museums, publishers, and other content producers.

Working groups under SC4:

WG 11 RFID in libraries

WG 12 WARC

WG 13 Cultural heritage information interchange

WG 14 Interlibrary Loan Transactions

Organizations in liaison:

CE, CIDOC, DCMI, EASE, EC, IAEA, IFSE, ISBN, ISSN International Center, Infoterm,
OASIS, OECD, UNCTAD, UNECE, UNESCO, WIPO, WMO

ISO/TC46/SC8 Quality - Statistics and performance evaluation

Scope:

Standardization of quantitative and qualitative data for the management of information organizations and content providers, e.g., libraries, archives, museums and publishers.

Working groups under SC8:

- WG 2 International library statistics
- WG 4 Performance indicators for libraries
- WG 7 Quality measures for national libraries
- WG 8 Statistical data for library buildings
- WG 9 Statistics and quality issues for web archiving
- WG 10 Methods and procedures for assessing the impact of libraries
- WG 11 International museum statistics
- WG 12 International archive statistics

Organizations in liaison:

CIDOC, EC, IAML, IFLA, UNESCO

ISO/TC46/SC9 Identification and description

Scope:

Standardization of information identifiers, description and associated metadata and models for use in information organizations (including libraries, museums and archives) and the content industries (including publishing and other content producers and providers).

Working groups under SC9:

- WG 2 International standard work code (ISWC)

- WG 4 International standard book numbering (ISBN)

- WG 10 International standard book numbering (ISBN)

- WG 11 International standard book numbering (ISBN)

- WG 12 Index and indexing

- WG 13 International library item identifier (ILII)

Organizations in liaison:

AGICOA, CIDOC, CISAC, DOI, EASE, EC, FERA, FIAPE, GS1, IAML, ICSSD, IFLA, IFPI, IFSE, IPA, ISAN, ISBN, ISMN, ISSN International Center, IVE, SMPTE, UNESCO

ISO/TC46/SC10 Requirements for document storage and conditions for preservation

Scope:

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.

- WG 1 Document storage requirements

- WG 2 Evaluation of paper deacidification processes

WG 3 Holdings Management

ISO/TC46/SC 11 Archives/records management

Scope:

Standardization of principles for the creation and management of documents, records and archives as evidence of transactions and covering all media including digital multimedia and paper.

Working groups under SC11:

WG 1 Metadata

WG 7 JWG on Digital records preservation

WG 8 Records management systems ¿ Fundamentals and Vocabulary

WG 10 Implementation Guidelines for Digitization of Records

WG 13 Revision of ISO 15489-1 and ISO/TR 15489-2

WG 14 Record requirements in enterprise architecture

Organizations in liaison:

ICA, IRMT, InterPARES

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