

ISO/IEC JTC 1/SC 34**Document description and processing Languages****Secretariat: JISC (Japan)**

Document type:	Text for NP ballot
Title:	NP TS 23078.2, Proposal for a New Work Item on Specification of DRM technology for e-book content in EPUB format
Status:	Please vote and comment via the ISO CIB system by the due date.
Date of document:	2018-06-05
Source:	National Body of Korea
Expected action:	Vote
Action due date:	2018-08-28
No. of pages:	7
Email of secretary:	kimura@itsci.ipsj.or.jp
Committee URL:	http://isotc.iso.org/livelink/livelink/open/jtc1sc34



Form 4: New Work Item Proposal

Circulation date: 2018-06-05 Closing date for voting: 2018-08-28	Reference number: ISO/IEC NP TS 23078 (to be given by Central Secretariat) ISO/IEC JTC 1/SC 34 N 2506
Proposer (e.g. ISO member body or A liaison organization) KATS	
Secretariat JISC	

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, an organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

The proposer has considered the guidance given in the Annex C during the preparation of the NWIP.

Proposal (to be completed by the proposer)

Title of the proposed deliverable.

English title:

Specification of DRM technology for e-book content in EPUB format

French title:

Spécification de la technologie DRM pour le contenu e-book au format EPUB

(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)

Scope of the proposed deliverable.

The proposed standard provides a specification of the security technology required to deliver EPUB content for the purpose of submission, storing and dissemination in libraries and other organizations. This proposed standard addresses specific technical specifications for encryption, digital signatures, certificates, and licenses of EPUB contents, as well as usage scenarios for secure delivery of EPUB contents. The proposed standard uses internationally proven security technologies and consists of royalty-free technologies.

Purpose and justification of the proposal*

While the creation of e-books around the world has been carried out according to EPUB standards for compatibility, e-book publishers have used proprietary DRM technologies developed by e-book distributors or using commercial DRM solutions to protect the EPUB contents.

Although varying from country to country, most libraries that have offered a lending service for print books are faced with the demand of providing the same service for e-books. In the case of South Korea, the e-book is currently easily accessed at the digital libraries. To reduce management complexity from different DRM sources and reading systems of multiple publishers, the libraries would like to receive plaintext e-books without DRM applied, but publishers are opposed to submitting them in plaintext for copyright reasons. Under this circumstance, some libraries use their own security technologies or use commercial DRM technology for e-books.

However, it will create inconvenience to publishers since they have to manage multiple versions of protected e-book contents to deliver them to different libraries. It will also cause inconvenience to end users since they also have to install multiple reading systems for their use.

The proposed standard provides the DRM technical specifications required for the delivery management of EPUB contents, and these standards enable EPUB contents to be managed securely and consistently from submission to dissemination in the libraries and other organizations without any unnecessary DRM migration.

A standardized DRM technology for e-books is also expected to help accessibility issue. It can be applied to DAISY/EPUB readers in which any EPUB publications protected by the standard DRM are able to be accessible with common way. Current EPUB publications protected by proprietary DRM tend to be less accessible because it can only be accessed by specific EPUB reading systems.

Apart from an industrial standard that it is proposed to use as a partial basis for this project, there are no existing non-proprietary DRM technologies suitable for use with e-book content that are already standardized, in the process of being standardized or suitable for standardization.

*Consider the following: Is there a verified market need for the proposal? What problem does this standard solve? What value will the document bring to end-users? See Annex C of the ISO/IEC Directives part 1 for more information. See the following guidance on justification statements on ISO Connect:
<https://connect.iso.org/pages/viewpage.action?pageId=27590861>*

<p>Preparatory work (at a minimum an outline should be included with the proposal)</p> <p><input type="checkbox"/> A draft is attached <input type="checkbox"/> An outline is attached <input checked="" type="checkbox"/> An existing document to serve as initial basis</p> <p>The proposer or the proposer's organization is prepared to undertake the preparatory work required:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>If a draft is attached to this proposal:</p> <p>Please select from one of the following options (note that if no option is selected, the default will be the first option):</p> <p><input checked="" type="checkbox"/> Draft document will be registered as new project in the committee's work programme (stage 20.00)</p> <p><input type="checkbox"/> Draft document can be registered as a Working Draft (WD – stage 20.20)</p> <p><input type="checkbox"/> Draft document can be registered as a Committee Draft (CD – stage 30.00)</p> <p><input type="checkbox"/> Draft document can be registered as a Draft International Standard (DIS – stage 40.00)</p> <p>If the attached document is copyrighted or includes copyrighted content:</p> <p><input type="checkbox"/> The proposer confirms that appropriate permissions have been granted in writing for ISO or IEC to use that copyrighted content.</p>
<p>Is this a Management Systems Standard (MSS)?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>NOTE: if Yes, the NWIP along with the <u>Justification study</u> (see Annex SL of the Consolidated ISO Supplement) must be sent to the MSS Task Force secretariat (tmb@iso.org) for approval before the NWIP ballot can be launched.</p>
<p>Indication(s) of the preferred type to be produced under the proposal.</p> <p><input type="checkbox"/> International Standard <input checked="" type="checkbox"/> Technical Specification</p> <p><input type="checkbox"/> Publicly Available Specification <input type="checkbox"/> Technical Report</p>
<p>Proposed development track</p> <p><input type="checkbox"/> 18 months* <input type="checkbox"/> 24 months <input checked="" type="checkbox"/> 36 months <input type="checkbox"/> 48 months</p> <p>Note: Good project management is essential to meeting deadlines. A committee may be granted only one extension of up to 9 months for the total project duration (to be approved by the ISO/TMB).</p> <p>*DIS ballot must be successfully completed within 13 months of the project's registration in order to be eligible for the direct publication process</p>
<p>Draft project plan (as discussed with committee leadership)</p> <p>Proposed date for first meeting:</p> <p>Dates for key milestones: DIS submission</p> <p style="text-align: center;">Publication</p>
<p>Known patented items (see ISO/IEC Directives, Part 1 for important guidance)</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If "Yes", provide full information as annex</p>

Co-ordination of work: To the best of your knowledge, has this or a similar proposal been submitted to another standards development organization?

Yes No

If “Yes”, please specify which one(s):

A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables.

The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized.

Proposed work differs from ISO/IEC JTC 1/SC 27 (IT Security Techniques). ISO documents from SC 27 are almost basic concepts and implementation ways of the security algorithms. On the other hand, the proposed work will just reuse existing standards for protection of the EPUB 3 contents. The attached document is intended to be a basis for developing the proposed specification, but that the overall structure and content may change so as to avoid duplication of existing standards.

A listing of relevant existing documents at the international, regional and national levels.

- ISO/IEC TS 30135 (EPUB Specification Part 1~7) is relevant to the proposed specification.
- KS X 6072 (1~6 Specification for Interoperable EPUB DRM) which is national standards of South Korea is basis of the proposed specification
- Radium LCP which is industrial standard from Radium Foundation is relevant to the proposed specification

Please fill out the relevant parts of the table below to identify relevant affected stakeholder categories and how they will each benefit from or be impacted by the proposed deliverable(s).

	Benefits/impacts	Examples of organizations / companies to be contacted
Industry and commerce large industry	To prevent piracy use; to provide interoperability of EPUB; to reduce maintenance cost	Libraries, publishers, collections
Industry and commerce SMEs	To prevent piracy use; to reduce the cost of buying proper DRM solution	Publishers, personal publishers
Government	To facilitate EPUB storage; to provide secure public service of EPUB content	Ministry for culture; ministry for education
Consumers	To use more e-books produced and consumed in EPUB format	Publishers; developers of ebook reading platforms for library use
Labour		
Academic and research bodies		
Standards application businesses		
Non-governmental organizations		

Other (please specify)		
Liaisons: A listing of relevant external international organizations or internal parties (other ISO and/or IEC committees) to be engaged as liaisons in the development of the deliverable(s).	Joint/parallel work: Possible joint/parallel work with: <input type="checkbox"/> IEC (please specify committee ID) <input type="checkbox"/> CEN (please specify committee ID) <input type="checkbox"/> Other (please specify)	
A listing of relevant countries which are not already P-members of the committee. Note: The committee secretary shall distribute this NWIP to the countries listed above to see if they wish to participate in this work		
Proposed Project Leader (name and e-mail address) Taehyun Kim thkim@drminside.com	Name of the Proposer (include contact information) Taehyun Kim thkim@drminside.com	
This proposal will be developed by: <input checked="" type="checkbox"/> An existing Working Group: ISO/IEC JTC 1/SC 34/JWG 7 <input type="checkbox"/> A new Working Group: (Note: establishment of a new WG must be approved by committee resolution) <input type="checkbox"/> The TC/SC directly <input type="checkbox"/> To be determined:		

Supplementary information relating to the proposal

- This proposal relates to a new ISO document
- This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item
- This proposal relates to the re-establishment of a cancelled project as an active project

Other:

Maintenance agencies and registration authorities

- This proposal requires the service of a maintenance agency. If yes, please identify the potential candidate:

- This proposal requires the service of a registration authority. If yes, please identify the potential candidate:

NOTE: Selection and appointment of the MA or RA is subject to the procedure outlined in the ISO/IEC Directives, Annex G and Annex H, and the RA policy in the ISO Supplement, Annex SN.

- Annex(es) are included with this proposal (give details)

Additional information/question(s)