

ISO/IEC JTC 1/SC 34 N 1459

DATE: 2010-07-12

ISO/IEC JTC 1/SC 34
Document Description and Processing Languages
Secretariat: [Japan \(JISC\)](#)

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TITLE	Proposal for New Work Item on Safe Extensions of Office Open XML File Formats						
SOURCE	National Body of Japan						
PROJECT							
STATUS	This document is circulated to the SC 34 members for a three-month letter ballot. It is also submitted to JTC 1 for concurrent review.						
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DUE DATE	2010-10-13						
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FILE	<table><tr><td>NAME</td><td>1459.pdf</td></tr><tr><td>SIZE (KB)</td><td></td></tr><tr><td>PAGES</td><td>6</td></tr></table>	NAME	1459.pdf	SIZE (KB)		PAGES	6
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G3 New Work Item Proposal

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2010-07-12	Proposer: Japan
Secretariat: JISC	ISO/IEC JTC 1 N XXXX ISO/IEC JTC 1/SC 34 N 1459

A proposal for a new work item shall be submitted to the secretariat of the ISO/IEC joint technical committee concerned with a copy to the ISO Central Secretariat.

Presentation of the proposal - to be completed by the proposer Guidelines for proposing and justifying a new work item are given in ISO Guide 26.

Title Safe Extensions of Office Open XML File Formats
Scope This multi-part standard standardizes safe extensions of Office Open XML File Formats (ISO/IEC 29500). An OOXML extension is <i>safe</i> if OOXML documents containing this extension are guaranteed to conform to ISO/IEC 29500 and are thus guaranteed to be processable by conformant applications of ISO/IEC 29500.
Purpose and justification - [see Annex A]
Programme of work If the proposed new work item is approved , which of the following document(s) is (are) expected to be developed? <input type="checkbox"/> a single International Standard more than one International Standard (expected number:) <input checked="" type="checkbox"/> a multi-part International Standard consisting of ...3... parts <input type="checkbox"/> an amendment or amendments to the following International Standard(s) <input type="checkbox"/> a technical report , type And which standard development track is recommended for the approved new work item? <input checked="" type="checkbox"/> a. Default Timeframe <input type="checkbox"/> b. Accelerated Timeframe <input type="checkbox"/> c. Extended Timeframe
Relevant documents to be considered Requirements for Japanese Text Layout, W3C Note
Cooperation and liaison W3C Japanese Layout Task Force
Preparatory work offered with target date(s)
Signature:

Will the service of a maintenance agency or registration authority be required? **NO**.....
 - If yes, have you identified a potential candidate?
 - If yes, indicate name

Are there any known requirements for coding? **NO**.....
 -If yes, please specify on a separate page

Does the proposed standard concern known patented items? **NO**.....
 - If yes, please provide full information in an annex

Are there any known accessibility requirements and/or dependencies (see: <http://www.jtc1access.org>)? **NO**
 -If yes, please specify on a separate page

Are there any known requirements for cultural and linguistic adaptability? **NO**.....
 -If yes, please specify on a separate page

Comments and recommendations of the JTC 1 Secretariat - attach a separate page as an annex, if necessary

Comments with respect to the proposal in general, and recommendations thereon:
 It is proposed to assign this new item to JTC 1/SC 34.

Voting on the proposal - Each P-member of the ISO/IEC joint technical committee has an obligation to vote within the time limits laid down (normally three months after the date of circulation).

Date of circulation: 2010-07-12	Closing date for voting: 2010-10-13	Signature of JTC 1 Secretary: Toshiko Kimura Secretariat, ISO/IEC JTC 1/SC 34
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A Business Requirement		
A.1 Market Requirement	Essential <input checked="" type="checkbox"/> X <input type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/>	Part 2 (Kihon-hanmen) is required for better support of CJK text layout requirements. Part 3 (character repertoire checking) address requirements that have been addressed by ad-hoc mechanisms for checking characters.
A.2 Regulatory Context	Essential <input type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/> Not Relevant <input checked="" type="checkbox"/> X <input type="checkbox"/>	
B. Related Work		

B.1 Completion/Maintenance of current standards	Yes ___X No___	
B.2 Commitment to other organization	Yes ___ No___ X	
B.3 Other Source of standards	Yes ___ No___ X	
C. Technical Status		
C.1 Mature Technology	Yes ___ X No___	Kihon-hanmen is already supported by some document formatters.
C.2 Prospective Technology	Yes ___ No___ X	
C.3 Models/Tools	Yes ___ No___ X	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes ___ No___ X	Conformance shall be determined by the normative provisions of the Standard
D.2 Interoperability	Yes ___ No___ X	Conformant implementations shall, by their nature, support interoperability
E. Other Justification		
E.1 Cultural and Linguistic Adaptability	Yes _X_ No___	
E.2 Adaptability to Human Functioning and Context of Use	Yes ___ No_X__	

Annex A

ISO/IEC 29500 is designed to allow *safe* extensions. An OOXML extension is *safe* if OOXML documents containing this extension are guaranteed to conform to ISO/IEC 29500 and are thus guaranteed to be processable by conformant applications of ISO/IEC 29500. Some safe extensions (e.g., Microsoft Office 2010 extensions) of ISO/IEC 29500 have already appeared in the market, although they have not been standardized by JTC1.

This multi-part standard is intended to be an inventory of standardized safe extensions of OOXML. The initial set of such extensions includes kihon-hanmen and character repertoire checking.

The kihon-hanmen extension is intended to allow CJK (Chinese, Japanese, and Korean) users to design page layouts in an intuitive and traditional way. Such users would like to begin with the number of characters per line, number of lines per page, font size, line gap, character size, etc. without specifying margins. Margins should rather be computed from other parameters. See 2.2.4 “Elements of Kihon-hanmen” in “Requirements for Japanese Text Layout” (W3C Note) for details.

Meanwhile, the character-repertoire-checking extension is intended to allow document templates to impose constraints on permissible character repertoires. For example, some users might want to create a document template that disallows non-ASCII characters, while others might want to create a different document template that allows some (but not all) of the CJK ideographic characters.

It is proposed that this multi-part standard has three parts. However, it is expected that more parts will be added.

Part1: Guideline

This part is intended to provide guidelines for creating safe extensions of ISO/IEC 29500. These guidelines include the recipe for using new OPC parts, extList and MCE (Markup Compatibility and Extensions) of ISO/IEC 29500 as well as instructions for creating DSDL schemas for safe extensions.

Part 2: Kihon-hanmen

This part is intended to provide mechanisms for specifying page layouts in terms of kihon-hanmen as shown in “Requirements for Japanese Text Layout” (W3C Note). It is expected that a new element having several attributes are added to WML (to be precise, document.xml) of ISO/IEC 29500. The addition of this element is controlled by MCE of OOXML (ISO/IEC 29500-3). This element isThe schema for this extension is intended to be captured by NVDL and RELAX NG, both of which belong to the DSDL technology.

Part 3: Character repertoire checking

This part is intended to provide mechanisms for permissible character repertoires. It is expected that a new OPC part for CREPDL (ISO/IEC 19757-7) scripts is introduced and that some attributes for referencing to this OPC part are introduced to WML, PML, and SML. The addition of this attribute is controlled by MCE of OOXML (ISO/IEC 29500-3). The schema for this extension is intended to be captured by NVDL and RELAX NG, both of which belong to the DSDL technology.