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

DOC. TYPE	Proposed NP (proposal under review by WG or SC)
TITLE	Proposed NP on Document Packaging [WG 1]
SOURCE	WG 1
PROJECT	
STATUS	This document is circulated to the SC 34 members for consideration at the SC 34 Plenary Meeting, Stockholm, Sweden, 2010-03-26.
ACTION ID	ACT
DUE DATE	
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G3 New Work Item Proposal

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2010-03-26	Proposer: ISO/IEC JTC 1/SC 34
Secretariat: JISC	**ISO/IEC JTC 1 N** XXXX

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 Document Packaging
Scope This proposal is for an International Standard that specifies a minimal file format for combining multiple resources into a single resource (termed a "package"). Stored resources are optionally compressed, and have some technical associated metadata, such as a checksum. For packages in which stored resources are XML documents, the proposed standard shall specify mechanisms by which such documents, and the relationships between them, may be exposed for validation purposes.
Purpose and justification [see Annex A overleaf]
Programme of work If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed? __X_ a single International Standard ~~more than one International Standard~~ (expected number: [*note to ITTF: please supply a memorable number for this important foundation technology*]) _____ a multi-part International Standard consisting of .... parts _____ an amendment or amendments to the following International Standard(s) .... _____ a technical report , type ....
Relevant documents to be considered
Cooperation and liaison: *SC 34 expects to benefit from its existing liaisons with OASIS, Ecma and W3C – these bodies have specifications which reference non-standard versions of the proposed packaging mechanism*.
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

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 XX

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: YYYY-MM-DD	Closing date for voting: YYYY-MM-DD	Signature of JTC 1 Secretary:

NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	**Validity**	**Explanation**
A Business Requirement		
A.1 Market Requirement	Essential _X_ Desirable ___ Supportive ___	There are current JTC 1 standards that have an immediate requirement for this standard, as the technology proposed for standardization is already a basis for their normative provisions
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive ___ Not Relevant _X_	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes ___ No_X_	
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___	The technology is well established and used by a number of International and *de facto* standards (see Annex A). The compression mechanism used is standardized by IETF as RFC 1951
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. Adaptability to Culture, Language, Human Functioning and Context of Use		
E.1 Cultural and Linguistic Adaptability	Yes _X_ No___	The proposed Standard shall ensure the names of package resources can use characters of the Universal Character Set (UCS) ISO/IEC 10646
E.2 Adaptability to Human Functioning and Context of Use	Yes ___ No_X__	

Annex A

Today many electronic documents are embodied not in wholly proprietary formats, but in formats built on the foundation of standards.

One increasingly common approach is to specify formats in which XML documents and other digital resources are stored together in an archive based on a minimal implementation of what is known as the "ZIP" format.

Examples of document-centric formats which take this approach include:

- ISO/IEC 26300 (Open Document Format for Office Applications)
- ISO/IEC 29500 (Office Open XML)
- EPUB (standardized by The International Digital Publishing Forum http://www.idpf.org/)
- W3C Widget Packaging and Configuration
- ADL SCORM (http://www.adlnet.gov/Technologies/scorm/)

Note also that ITTF makes documents available in ZIP-compatible packages.

However, despite the widespread use of the ZIP format, it has never been standardized.

Such a pervasive format as ZIP would benefit greatly from being an International Standard. In practice, formats using ZIP for document packaging use a small and well-established subset of the overall current non-standard technology which can be quickly standardized. SC 34 has had strong indications from its experts and liaisons that a standardized, ZIP-compatible Document Packaging format would be of immense value, and wishes to ballot this NP to gather member body feedback.

The deliverables of this project shall be:

- Specification of a minimal compressed archive format suitable for immediate use with the document standards named above
- Specification of XML serializations of archive data for validation purposes
- Specification of a mechanism for exposing archived document structure, when those archived documents are XML