

## New Work Item Proposal

### PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2005-12-22	Proposer: KATS (Korean Agency for Technology and Standards)
Secretariat: Standards Council of Canada (SCC)	<b>ISO/IEC JTC 1 N 0699</b> ISO/IEC JTC 1/SC 34 N

**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.

<b>Title</b> Topic Maps – Compact Syntax
<b>Scope</b> This proposed standard specifies a compact, text-based notation for representing topic maps.
<b>Purpose and justification</b> There is a need for a text-based notation for representing topic maps as defined in ISO/IEC 13250:2003. Such a notation would complement the existing XML interchange syntax (XTM), and provide a simple, compact notation for: <ul style="list-style-type: none"><li>• manually authoring topic maps</li><li>• providing human-readable examples</li><li>• providing a common, lightweight syntax as a basis for TMCL and TMQL</li></ul> Two text-based notations already exist and have achieved widespread use in the Topic Maps community: the Linear Topic Map Notation (LTM) and AsTMa=. They are principally used for manually authoring topic maps and for providing short, human-readable examples in documents. However, both of these notations are proprietary. As Topic Maps achieves greater adoption in the wider community, the goals of interchange are better served by having a single, standardized notation. In addition, Topic Maps Constraint Language (ISO 19756) and Topic Maps Query Language (ISO 18048), both of which are currently under development, require a simple text-based notation. By defining CTM at this stage, all of these requirements can be harmonized. If approved, CTM will become Part 6 of ISO 13250.

<p><b>Programme of work</b></p> <p>If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed?</p> <p><input checked="" type="checkbox"/> a new part of an existing International Standard (ISO/IEC 13250:2003)</p> <p><input type="checkbox"/> more than one International Standard (expected number: ..... )</p> <p><input type="checkbox"/> a multi-part International Standard consisting of ..... parts</p> <p><input type="checkbox"/> an amendment or amendments to the following International Standard(s)</p> <p>.....</p> <p><input type="checkbox"/> a technical report , type .....</p> <p>And which standard development track is recommended for the approved new work item?</p> <p><input type="checkbox"/> a. Default Timeframe</p> <p><input type="checkbox"/> b. Accelerated Timeframe</p> <p><input type="checkbox"/> c. Extended Timeframe</p>
<p><b>Relevant documents to be considered</b></p> <p><i>The Linear Topic Map Notation: Definition and introduction</i> (<a href="http://www.ontopia.net/download/ltn.html">http://www.ontopia.net/download/ltn.html</a>)</p> <p><i>AsTMA= Language Definition</i> (<a href="http://astma.it.bond.edu.au/astma=-spec-xtm.dbk">http://astma.it.bond.edu.au/astma=-spec-xtm.dbk</a>)</p> <p><i>ISO/IEC 13250-2 Topic Maps – Data Model</i></p>
<p><b>Co-operation and liaison</b></p> <p>None</p>
<p><b>Preparatory work offered with target date(s)</b></p> <p>Draft requirements</p>
<p><b>Signature:</b></p> <p>Will the service of a maintenance agency or registration authority be required? No</p> <p>- If yes, have you identified a potential candidate? .....</p> <p>- If yes, indicate name .....</p> <p>Are there any known requirements for coding? No</p> <p>-If yes, please specify on a separate page</p> <p>Does the proposed standard concern known patented items? No</p> <p>- If yes, please provide full information in an annex</p>

**Comments and recommendations of the JTC 1 or SC 34 Secretariat** - attach a separate page as an annex, if necessary

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

<p><b>Date of circulation:</b> 2005-12-22</p>	<p><b>Closing date for voting:</b> 2006-03-22</p>	<p><b>Signature of Secretary:</b> G. Ken Holman</p>
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<b>NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA</b>		
<b>Criterion</b>	<b>Validity</b>	<b>Explanation</b>
<b>A. Business Requirement</b>		
A.1 Market Requirement	Essential <input checked="" type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/>	Users of ISO 13250 require a syntax that is more suitable for hand-editing and providing examples than the XML interchange syntax.
A.2 Regulatory Context	Essential <input type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/> Not Relevant <input checked="" type="checkbox"/>	
<b>B. Related Work</b>		
B.1 Completion/Maintenance of current standards	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CTM will provide part of the machinery necessary to complete ISO 18048 and ISO 19756.
B.2 Commitment to other organisation	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
B.3 Other Source of standards	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>C. Technical Status</b>		
C.1 Mature Technology	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Considerable experience has been gained through the use of LTM and AsTMA= over a period of five years.
C.2 Prospective Technology	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
C.3 Models/Tools	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

<b>D. Conformity Assessment and Interoperability</b>		
D.1 Conformity Assessment	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The standard will have a conformance clause that covers conforming CTM documents and conforming CTM processors.
D.2 Interoperability	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The standard will have a clause defining how to deserialize CTM documents in to models that conform to ISO 13250-2 (Topic Maps Data Model).
<b>E. Cultural and Linguistic Adaptability</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	It is a requirement that CTM will support multiple languages and the Unicode character encoding. This will be achieved in the project by ensuring that CTM supports every aspect of the Topic Maps Data Model.
<b>F. Other Justification</b>		

## **Notes to Proforma**

**A. Business Relevance.** That which identifies market place relevance in terms of what problem is being solved and or need being addressed.

A.1 Market Requirement. When submitting a NP, the proposer shall identify the nature of the Market Requirement, assessing the extent to which it is essential, desirable or merely supportive of some other project.

A.2 Technical Regulation. If a Regulatory requirement is deemed to exist - e.g. for an area of public concern e.g. Information Security, Data protection, potentially leading to regulatory/public interest action based on the use of this voluntary international standard - the proposer shall identify this here.

**B. Related Work.** Aspects of the relationship of this NP to other areas of standardisation work shall be identified in this section.

B.1 Competition/Maintenance. If this NP is concerned with completing or maintaining existing standards, those concerned shall be identified here.

B.2 External Commitment. Groups, bodies, or fora external to JTC 1 to which a commitment has been made by JTC for Co-operation and or collaboration on this NP shall be identified here.

B.3 External Std/Specification. If other activities creating standards or specifications in this topic area are known to exist or be planned, and which might be available to JTC 1 as PAS, they shall be identified here.

**C. Technical Status.** The proposer shall indicate here an assessment of the extent to which the proposed standard is supported by current technology.

C.1 Mature Technology. Indicate here the extent to which the technology is reasonably stable and ripe for standardisation.

C.2 Prospective Technology. If the NP is anticipatory in nature based on expected or forecasted need, this shall be indicated here.

C.3 Models/Tools. If the NP relates to the creation of supportive reference models or tools, this shall be indicated here.

## **D. Conformity Assessment and Interoperability**

D.1 Indicate here if Conformity Assessment is relevant to your project. If so, indicate how it is addressed in your project plan.

D.2 Indicate here if Interoperability is relevant to your project. If so, indicate how it is addressed in your project plan

**E. Cultural and Linguistic Adaptability** Indicate here if cultural and linguistic adaptability is applicable to your project. If so, indicate how it is addressed in your project plan.

**F. Other Justification** Any other aspects of background information justifying this NP shall be indicated here