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**ISO/IEC JTC 1**  
**Information Technology**

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**Document Type:** Proposed NP

**Document Title:** SC 31 Proposal for a New Work Item, Information technology -- Automatic identification and data capture techniques -- Mobile item identification and management -- Ull scheme and encoding format for Mobile AIDC services

**Document Source:** SC 31 Secretariat

**Reference:**

**Document Status:** This document is circulated to JTC 1 National Bodies for concurrent review. If the JTC 1 Secretariat receives no objections to this proposal by the due date indicated, we will so inform the SC 31 Secretariat.

**Action ID:** ACT

**Due Date:** 2008-10-31

**No. of Pages:** 9

**ISO/IEC JTC 1/SC 31**

**Automatic Identification and Data Capture Techniques**

**Secretariat: ANSI (USA)**

**DOC TYPE:** New Work Item Proposal

**TITLE:** Information technology -- Automatic identification and data capture techniques -- Mobile item identification and management -- UII scheme and encoding format for Mobile AIDC services

**SOURCE:** National Body of the Republic of Korea

**PROJECT:**

**STATUS:** Per Resolution 5 of the Seoul Plenary Meeting, P-Members are requested to use the attached form (SC031 - Form 13B Comment Document.doc) for submission of comments on any project ballot.

P-Members are requested to review the referenced documents and cast a vote via the SC 31 Balloting System (LiveLink) by the due date indicated.

**ACTION ID:** COM

**DUE DATE:** 2008-10-30

**DISTRIBUTION:** ISO/IEC JTC 1/SC 31 members

**MEDIUM:** ISO TC Portal (LiveLink)

**NO. OF PAGES:** 7 (including this cover)

## New Work Item Proposal

July 2008

### PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2008-07-21	Proposer: KATS National Body of Republic of Korea
Secretariat: ANSI	<b>ISO/IEC JTC 1 N XXXX</b> ISO/IEC JTC 1/SC 31 N 2591

**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

**Title** (subject to be covered and type of standard, e.g. terminology, method of test, performance requirements, etc.)

Information technology – Automatic identification and data capture techniques – Mobile item identification and management – UII scheme and encoding format for Mobile AIDC services

#### **Scope** (and field of application)

This work item defines a UII structure and UII encoding format for Mobile AIDC services. The UII structure is proposed to support unique characteristics of Mobile AIDC services compared to legacy AIDC applications and services. Encoding formats of the proposed UII scheme follow existing encoding standards, ISO/IEC 15962 for RFID and ISO/IEC 15434 for barcode.

This work item deals with:

- UII structure for Mobile AIDC services; and
- UII encoding formats base on ISO/IEC 15962 for RFID tag and ISO/IEC 15434 for barcode tag.

The UII registration procedure is out of scope of this work item.

**Purpose and justification** - attach a separate page as annex, if necessary

Existing UII schemes were designed to support identification of physical and logical objects in legacy business domains such as SCM, logistics, inventory management, etc. Their assigned identifiers are closely related to corresponding objects.

But, Mobile AIDC services have different characteristics. Mobile AIDC service users are human consumers and they enjoy information contents presented by Mobile AIDC services where final identification targets are the information contents which are all logical objects. For example, every electronic file of images, songs, movies, and e-books shall be identified and assigned each with an identifier. Then, physical objects at which RFID or barcode tags are affixed may not be related to the identifiers. For example, an RFID tag for a movie trailer service may be affixed at tables of a Starbucks coffee shop.

Identification of information contents may consist of various identification elements such as contents owner, contents service provider, distribution service provider, contents category like travel, education, etc., content type like music, song, image, video, etc., access right, and so on. Existing UII schemes cannot support these identification requirements.

Thus, this work item will specify a UII scheme to support such new identification requirements of Mobile AIDC services.

**Programme of work**

If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed?

- ☒ a single International Standard  
☐ more than one International Standard (expected number: ..... )  
☐ a multi-part International Standard consisting of ..... parts  
☐ an amendment or amendments to the following International Standard(s) .....  
☐ a technical report , type .....

And which standard development track is recommended for the approved new work item?

- ☒ a. Default Timeframe  
☐ b. Accelerated Timeframe  
☐ c. Extended Timeframe

**Relevant documents to be considered**

ISO/IEC JTC 1/SC 31/WG 6 N0035 R1  
ISO/IEC 15961  
ISO/IEC 15962  
ISO/IEC 15434

**Co-operation and liaison**

ISO/IEC JTC 1/SC 31/WG 6

**Preparatory work offered with target date(s)**

The Republic of Korea is pleased to be the sponsoring member for this work item and proposes Mr. Seung Jai YI as the project leader/editor of this deliverable.

Contact Details: Seung Jai YI, NIDA, 3F, 398, Seochoro, Seocho-gu, Seoul, Korea, 137-857, Republic of Korea; Email: sjlee@nida.or.kr; Tel: +82 2 2186 4551; Fax: +82 2 2186 4496

**Signature:** Raymond Delnicki, ISO/IEC JTC 1/SC 31 Secretariat

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 or SC 31 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 31/WG 6.

**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).

<b>Date of circulation:</b> 2008-07-30	<b>Closing date for voting:</b> 2008-10-30	<b>Signature of Secretary:</b> Lisa Rajchel
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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"/>	Mobile AIDC service providers request to develop a new UII scheme to meet unique identification requirements of their information contents.
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 type="checkbox"/> No <input checked="" type="checkbox"/>	

B.2 Commitment to other organisation	Yes ____ No <u>X</u>	
B.3 Other Source of standards	Yes ____ No <u>X</u>	
<b>C. Technical Status</b>		
C.1 Mature Technology	Yes ____ No <u>X</u>	Products and trial services are already on the market in a few countries but there is no international UII scheme for Mobile AIDC services.
C.2 Prospective Technology	Yes <u>X</u> No ____	
C.3 Models/Tools	Yes ____ No <u>X</u>	
<b>D. Conformity Assessment and Interoperability</b>		
D.1 Conformity Assessment	Yes ____ No <u>X</u>	
D.2 Interoperability	Yes ____ No <u>X</u>	
<b>E. Adaptability to Culture, Language, Human Functioning and Context of Use</b>		
E.1 Cultural and Linguistic Adaptability	Yes ____ No <u>X</u>	
E.2 Adaptability to Human Functioning and Context of Use	Yes ____ No <u>X</u>	
<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** Any other aspects of background information justifying this NP shall be indicated here.

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. Adaptability to Culture, Language, Human Functioning and Context of Use**

**NOTE: The following criteria do not mandate any feature for adaptability to culture, language, human functioning or context of use. The following criteria require that if any features are provided for adapting to culture, language, human functioning or context of use by the new Work Item proposal, then the proposer is required to identify these features.**

**E.1 Cultural and Linguistic Adaptability.** Indicate here if cultural and natural language adaptability is applicable to your project. If so, indicate how it is addressed in your project plan.

ISO/IEC TR 19764 (Guidelines, methodology, and reference criteria for cultural and linguistic adaptability in information technology products) now defines it in a simplified way:

“ability for a product, while keeping its portability and interoperability properties, to:

- be internationalized, that is, be adapted to the special characteristics of natural languages and the commonly accepted rules for their use, or of cultures in a given geographical region;
- take into account the usual needs of any category of users, with the exception of specific needs related to physical constraints”

*Examples of characteristics of natural languages are: national characters and associated elements (such as hyphens, dashes, and punctuation marks), writing systems, correct transformation of characters, dates and measures, sorting and searching rules, coding of national entities (such as country and currency codes), presentation of telephone numbers and keyboard layouts. Related terms are localization, jurisdiction and multilingualism.*

**E.2 Adaptability to Human Functioning and Context of Use.** Indicate here whether the proposed standard takes into account diverse human functioning and diverse contexts of use. If so, indicate how it is addressed in your project plan.

**NOTE:**

1. Human functioning is defined by the World Health Organization at <http://www3.who.int/icf/beginners/bq.pdf> as:  
<<In ICF (*International Classification of Functioning, Disability and Health*), the term *functioning* refers to all body functions, activities and participation.>>
2. Content of use is defined in ISO 9241-11:1998 (*Ergonomic requirements for office work with visual display terminals (VDTs) – Part 11: Guidance on usability*) as:  
<<Users, tasks, equipment (hardware, software and materials), and the physical and societal environments in which a product is used.>>
3. Guidance for Standard Developers to address the needs of older persons and persons with disabilities).

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



MB <sup>1</sup>	Clause/ subclause (e. g. 3.1)	Para- graph/ Figure/ Table (e. g. Table 1)	Type of com- ment <sup>2</sup> (e. g. ed)	Comments: Justification for change	Proposed change	<i>DRAFT – For Comment</i>  Observations of the secretariat on each comment submitted

<sup>1</sup> MB = Member body (Enter two-letter country code, e. g. CN for China)  
<sup>2</sup> Type of comment:      ge = general      te = technical      ed = editorial

NB Columns 1, 2, 4, 5 are compulsory