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ISO/IEC JTC 1
Information Technology

2008-07-31

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 -- Object Directory Service 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 -- Object Directory Service 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 | ISO/IEC JTC 1 N XXXX ISO/IEC JTC 1/SC 31 N 2594 |

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.

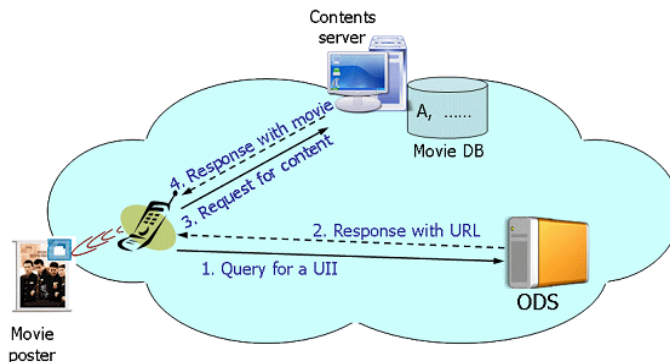
Presentation of the proposal

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 – Object Directory Service for Mobile AIDC services

Scope (and field of application)

This work item defines Object Directory Service (hereafter ODS) which provides a UII resolution from a UII to a corresponding information resource identifier like URL. A UII resolution is shown as an example in the following figure of which step 1 and 2 correspond to a UII resolution and step 3 and 4 do to a content retrieval from the contents server through the returned URL.



[Figure] A basic operation of UII resolution and content retrieval

The UII in the figure is not information content to be presented to Mobile AIDC terminal but an identifier linked to the information content. Such link information between UII and information content is represented as a URL.

The ODS handles mapping information between UII and information content in terms of URL. It responds with a URL related to the UII when it receives a query message of UII from a Mobile AIDC terminal which then retrieves an information content pointed by the URL.

This work item deals with:

- Description of ODS functionalities;
- UII resolution architecture;
- Resolution protocol procedure and message format; and
- Mapping information format between UII and information content.

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

Since final identification targets of Mobile AIDC services are information contents toward consumers, UIIs shall be assigned to the information contents like song, music, movie, etc. That is, a Mobile AIDC terminal shall retrieve information content with a UII assigned to the content.

A functionality to handle such association between UII and corresponding information content shall be provided to enable Mobile AIDC services. Usually such association is represented as URL which provides how to access and where to locate information content. Thus a UII shall be resolved into a URL pointing to its target information content. Then a content retrieval operation can start via the URL.

Consequently it is required that a resolution protocol from UII to corresponding information like URL be specified.

This work item defines ODS for the resolution protocol which consists of ODS architecture, protocol procedure, message format and mapping information format for 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?

- ☒ X_ 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?

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

Relevant documents to be considered

ISO/IEC JTC 1/SC 31/WG 6 N 0035 R1

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).

| | | |
|---|---|--|
| Date of circulation: 2008-07-30 | Closing date for voting: 2008-10-30 | Signature of Secretary: Lisa Rajchel |
|---|---|--|

| NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA | | |
|---|---|--|
| Criterion | Validity | Explanation |
| A. Business Requirement | | |
| A.1 Market Requirement | Essential <input checked="" type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/> | To give information content of UII to Mobile AIDC terminal, ODS is an essential component. |
| A.2 Regulatory Context | Essential <input type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/> Not Relevant <input checked="" type="checkbox"/> | |
| B. Related Work | | |
| B.1 Completion/Maintenance of current standards | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| 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"/> | |
| C. Technical Status | | |
| C.1 Mature Technology | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Other products and trial services are already on the market in some countries but there is no international UII directory server and operation for Mobile AIDC services. |

| | | |
|---|---|--|
| C.2 Prospective Technology | Yes <input checked="" type="checkbox"/> X___ No___ | This work item is a mandatory enabler to provide Mobile AIDC services. |
| C.3 Models/Tools | Yes ___ No <input checked="" type="checkbox"/> X___ | |
| D. Conformity Assessment and Interoperability | | |
| D.1 Conformity Assessment | Yes ___ No <input checked="" type="checkbox"/> X___ | Criteria might be determined, but this standard would not provide conformance tests. |
| D.2 Interoperability | Yes <input checked="" type="checkbox"/> X___ No___ | This work specifies a protocol description. |
| E. Adaptability to Culture, Language, Human Functioning and Context of Use | | |
| E.1 Cultural and Linguistic Adaptability | Yes ___ No___ <input checked="" type="checkbox"/> X_ | |
| E.2 Adaptability to Human Functioning and Context of Use | Yes ___ No___ <input checked="" type="checkbox"/> X_ | |
| F. Other Justification | | |

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/bg.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 ¹ | Clause/ subclause (e. g. 3.1) | Para- graph/ Figure/ Table (e. g. Table 1) | Type of com- ment ² (e. g. ed) | Comments: Justification for change | Proposed change | <i>DRAFT – For Comment</i> Observations of the secretariat on each comment submitted |
|-----------------|-------------------------------------|---|--|------------------------------------|-----------------|--|
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¹ MB = Member body (Enter two-letter country code, e. g. CN for China)
² Type of comment: ge = general te = technical ed = editorial

NB Columns 1, 2, 4, 5 are compulsory