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Information Technology

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DOCUMENT TYPE: Notification of Ballot

TITLE: Notification of Ballot - NWIP - Enhanced Terminal Accessibility (ETA) using cardholder preference interface

BACKWARD POINTER:

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STATUS: This ballot has been posted to the ISO Electronic balloting application and is available under the Balloting Portal, Committee Internal Balloting.

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DUE DATE: 2008-09-28

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New Work Item Proposal

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2008-XX-XX	Proposer: JISC ISO/IEC JTC 1/SC 17
Secretariat: AFNOR National Body: JISC	**ISO/IEC JTC 1**

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   Enhanced Terminal Accessibility (ETA) using cardholder preference interface

Scope (and field of application)

This standard specifies a set of data elements to be personalized into the card encoding cardholder preferences. These data elements are to be retrieved from the card and to be used to indicate to the terminals that the user has special needs regarding the user interface. In particular, this standard applies to cards issued to citizens with special needs. It is not intended to standardize the actual API or other terminal specific software allowing the functionality, nor does it cover the actual alignment of the card to the card reader slot. This standard is applicable not only for ID-1 type card, but also SIM/UIM on mobile phone and Contactless IC card which is specified in ISO/IEC 14443.

This standard comprises;
- Data elements containing the user preferences,
- storage method of these data elements,
- security related to the information contained in these data elements,
- access method to these data elements and
- example of implementations.

Note that
- a set of the data elements which is used for user preference should not be used for personal identification purposes. It may be linked to the personal information or it may be used without such a link.
- the data elements which are defined in this standard does not describe the kind of the obstacle

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

The card system terminals that are commonly used worldwide in modern society do not operate effectively for cardholders with special needs or senior citizens because most of those terminals only have a uniform 'man-machine interface'.

This standard aims to improve the 'man-machine interface' through which cardholders can use terminals more comfortably by adjusting the terminal functions to the individual characteristics.

Also, this standard will improve efficiency of the terminal so that all cardholders are benefited.

See ANNEX 1 and ANNEX 2.

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 ....

Relevant documents to be considered

Cooperation and liaison

Preparatory work offered with target date(s)   **See** ANNEX 1 and ANNEX 2

Signature: Yoshikazu Yorimoto – JISC - Japan

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 17/WG 4

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 ___ Desirable _X__ Supportive ___	
A.2 Regulatory Context	Essential ___ Desirable _X__ Supportive ___ Not Relevant ___	

B. Related Work		
B.1 Completion/Maintenance of current standards	Yes ___ No _X_	
B.2 Commitment to other organization	Yes _X_ No___	CEN TC224/WG6 CEN TC224/WG15
B.3 Other Source of standards	Yes _X_ No___	ISO/IEC 7816-4 ISO/IEC 7816-6 EN-1332-4 CWA 13897
C. Technical Status		
C.1 Mature Technology	Yes ___ No _X_	
C.2 Prospective Technology	Yes _X_ No___	
C.3 Models/Tools	Yes ___ No _X_	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes _X_ No___	
D.2 Interoperability	Yes _X_ No___	
E. 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 standardization 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 cooperation 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 standardization.

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. Any other aspects of background information justifying this NP 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** Indiciate 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

ANNEX 1

Explanation for the outline of NWI

"Enhanced Terminal Accessibility (ETA) using cardholder preference interface"

1. Purpose and justification

The card system terminals that are commonly used worldwide in modern society do not operate effectively for cardholders with special needs or senior citizens because most of those terminals only have a uniform 'man-machine interface'.

This standard aims to improve the 'man-machine interface' through which cardholders can use terminals more comfortably by adjusting the terminal functions to the individual characteristics.

Also, this standard will improve efficiency of the terminal so that all cardholders are benefited. Also, there are merits to improve efficiency of the terminal usage because use of the terminal is smoothly done by the realization of this interface.

Already, National Committee of Japan had proposed such requirements on the interface to ISO/IEC JTC 1/SC 17/WG 4. It was understood and supported by many countries, and the two data elements were added to ISO/IEC 7816-6, the data elements with Tag identifier '7F22' (included feature) and '7F23' (excluded feature), as storing place of the cardholder's requirements.' The coding information of the data object of the user requirements' is described as 'see EN 1332-4' in ISO/IEC 7816-6, and such details should correspond to reflect requirements from any parts of the whole world.

'EN 1332-4' includes the data elements for this purpose. We think it should be necessary to add storing, access methods and security requirements of the data elements for the interoperability.

The purpose of this standard is to prescribe the contents and the form of the unifying assistance information that can be mutually used in international systems to improve interoperability. This will also benefit manufacturers as currently system developers have to design and fund for each system.

A lot of persons are waiting for establishing as the standard.

So it should be made the standard as fast as possible.

Our final goal is not only establishing the standard, but also we hope that such terminal will be spread to all over the world as soon as possible.

For this purpose, the standard is able to make the implementation easily and cost effective as first step.

And after the first step, the standard may be added the more complex functions on it.

2. Terminals with improved accessibility

The method of realizing 'man-machine interface' to adjust to the characteristic of the individual is as follows.

Step1.

Individual card records the assistance information that is needed for operation of terminal individually. (For example, make bigger size of characters on screen. Make higher contrast for the colored information on screen)

Step2.

When a card is inserted in the terminal, the terminal reads the assistance information that the user needs to start the application processing.

Step3.

The terminal realizes and supports 'man - machine interface' which is the optimal for the cardholder's requirement with the available functions in the terminal.

3. Cooperation

We think that it is very important to cooperate with CEN/TC224/WG6 (man-machine interface) and CEN/TC224/WG15 (European Citizen Card) and other countries for standardization of the details of this interface.

ANNEX 2

Outline of Working Paper for

Enhanced Terminal Accessibility (ETA) using cardholder preference interface

1. SCOPE

This standard specifies a set of data elements to be personalized into the card encoding cardholder preferences. These data elements are to be retrieved from the card and to be used to indicate to the terminals that the user has special needs regarding the user interface. In particular, this standard applies to cards issued to citizens with special needs. It is not intended to standardize the actual API or other terminal specific software allowing the functionality, nor does it cover the actual alignment of the card to the card reader slot. This standard is applicable not only for ID-1 type card, but also SIM/UIM on mobile phone and Contactless IC card which is specified in ISO/IEC 14443.

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Note that
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- the data elements which are defined in this standard does not describe the kind of the obstacle

2. Normative References
- ISO/IEC 7816-4
- ISO/IEC 7816-6
- EN 1332-4
- CWA 13897

3. Terms and Definitions

4. Abbreviated terms

5. General

6. storage method of the data elements

7. Security related to the information contained in the data elements.

8. access method to the data elements

9. Maintenance

ANNEX A   Normative: Data elements containing the user preferences
         (EN1332-4+adding the requirements from each country)

ANNEX B   Informative: Implementation example by RNIB (CEN TC224 WG6)

ANNEX C   Informative: Implementation example by CEN TC224 WG15

ANNEX D   Informative: Implementation example by JAPAN

ANNEX E   Informative: Implementation example by Others
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