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Date: 2004-06-06

Committee identification: ISO/IEC JTC1/SC17/WG1

Secretariat: Steve Brunt [steve.brunt@physics.org](mailto:steve.brunt@physics.org) for BSI

**Title : Proposal for a new work item - Self-mark**

**Author/Submitter** : Japanese National Body

**Requested action** : for information

Document type: WG1 Committee Document

Document subtype: N/A

Document stage: N/A

Document language: E

**PROPOSAL FOR A NEW WORK ITEM**

Date of presentation of proposal: 2004-XX-XX	Proposer: <b>The National Body of Japan for ISO/IEC JTC 1/SC 17</b>
Secretariat: <b>ISO/IEC JTC1/SC17</b> National Body APACS for BSI	<b>ISO/IEC JTC 1 N XXXX</b>

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.

<b>Title Identification cards – Recording technique – Part 1 : Embossing – Amendment1: Self-mark</b>
<b>Scope</b> To create an additional part to ISO/IEC 7811-1 (Informative ANNEX D), to add standards for tactile identifier area that will supply the new methods for visually-impaired people to distinguish their own ID-cards. This identifier will also benefit all the card owners to pick up a specific cards intuitively. This annex is specified the sharing of the limited portion of lower-right area of surface of a card , "Name and Address Area" as the identifier region, and implementing Braille-1style embossed dot patterns on to the region. Embossed dot patterns consist of the combination of 3 groups of 6 possible dots with the Braille-style shape, which is used as sign designs for those who are new to Braille to enable easy tactile recognition.
<b>Purpose and justification</b> - attach a separate page as annex, if necessary – <b>See attached Additional Information</b>
<b>Programme of work</b> If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed? <input type="checkbox"/> a single International Standard more than one International Standard <input type="checkbox"/> a multi-part International Standard consisting of ..... parts <input checked="" type="checkbox"/> an amendment or amendments to the following International Standard(s) .. (ISO/IEC 7811-1/AM1).. <input type="checkbox"/> a technical report ,
<b>Relevant documents to be considered:</b> SC17 Standards for Cards
<b>Cooperation and liaison</b>
<b>Preparatory work offered with target date(s) To be distributed in advance of first meeting</b> <b>WG1 meeting start in Germany on March 2005, and FDIS target dates on March 2007</b>
<b>Signature: Nagaaki Ohyama</b>
Will the service of a maintenance agency or registration authority be required? <b>No</b> - If yes, have you identified a potential candidate? ..... - If yes, indicate name ..... Are there any known requirements for coding? <b>No</b> -If yes, please specify on a separate page Are there any known requirements for cultural and linguistic adaptability? <b>No</b> - If yes, please specify on a separate page Does the proposed standard concern known patented items? <b>No</b> - If yes, please provide full information in an annex
<b>Comments and recommendations of the JTC 1 Secretariat</b> - attach a separate page as an annex, if necessary
<b>Comments with respect to the proposal in general, and recommendations thereon:</b> <b>It is proposed to assign this new item to JTC 1/SC 17</b>

**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>	<b>Closing date for voting:</b>	<b>Signature of JTC 1/SC17 Secretary:</b> <b>Freda Bennett</b>
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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 <u>  X  </u> Desirable ___ Supportive ___	See Attached
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive ___ Not Relevant <u>  X  </u>	
<b>B. Related Work</b>		
B.1 Completion/Maintenance of current standards	Yes <u>  X  </u> No ___	<b>ISO/IEC7811-1</b>
B.2 Commitment to other organization	Yes <u>  X  </u> No ___	<b>CEN/TC224 WG6 Kyoyo-hin Foundation</b>
B.3 Other Source of standards	Yes ___ No <u>  X  </u>	
<b>C. Technical Status</b>		
C.1 Mature Technology	Yes <u>  X  </u> No ___	
C.2 Prospective Technology	Yes ___ No <u>  X  </u>	
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 <u>  X  </u> No ___	
<b>E. 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 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 JTC1 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 JTC1 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.

## **Purpose and justification**

Today ID-1 type cards will be more and more popularly used as the substitute of conventional currency, availability of them is everyone's concern who hopes to maintain the equal social participation.

But because most of the ID-1 cards are very similar in their shapes, visually-disabled people find difficulties to use them: almost unable to distinguish them. If one cannot distinguish one's own card, he/she may be in the daily life forced to face the risks of fraud and burglary each time when using cards. A mistake in picking up of the correct card may leads to unpredicted debt.

Some users have been trying to cope with these problems by attaching stickers with Braille or alternative convex shape on to the surface of cards. But such stickers may cause card equipment disorder.

It is necessary to develop new approaches to supply comprehensive tactile identification method. The method should be simple structure consistent with current specifications and should realize minimum cost impact for card issuers/users, minimum process impact for card manufacturers and maximum applicability for various types of visual-impairment.

To fulfill such requirements, the simple tactile identifier equipped on ID-1 cards denoting several symbols (such as the card type, the name of the issuer or card holder, according to users' preference) will be suitable. This kind of identifier can not only bring about benefits for visually-disabled and elderly but also supply all the card users with intuitive way to select the card they want.

### **A.1 Market Requirements: Essential**

There are strong requirements to identify and distinguish the orientation/surfaces of ID cards tactually from visually disabled people who desire to live the lives economically independent from others.

### **C.1 Mature Technology: Yes**

In Japan, postal savings office already issues ID cards with owner's name in Braille according to the owner's request and a credit card supplier employs tactile identifier with similar concept.

**Draft ISO/IEC 7811-1/AM1**

See separate issued draft Annex D (informative) Self Mark.

# Identification cards — Recording technique — Part 1: Embossing

AMENDMENT 1 : Self-mark

Document type: International Standard  
Document subtype: Not applicable  
Document stage: (20) Preparatory  
Document language: E

## Foreword

ISO (the International Organisation for Standardisation) and IEC (the International Electrotechnical Commission) form the specialised system for world-wide standardisation. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organisation to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organisations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Amendment1 to International standard ISO/IEC 7811-1 :2000 was prepared by JTC1/SC17/WG1 *Pysical characteristics and test methods for ID cards.*

## Identification cards — Recording technique — Part 1: Embossing

### AMENDMENT 1 : Self-mark

after AnnexC

Add following annex

## Annex D

(Informative)

### Self-mark

#### D.1 Scope

This annex is to specify the physical characteristics of the tactile identifier to distinguish the card.

To add standards for tactile identifier area that will supply the new methods for visually-impaired people to distinguish their own ID-cards. This identifier will also benefit all the card owners to pick up a specific cards intuitively. This annex is specified the sharing of the limited portion of lower-right area of surface of a card , "Name and Address Area" as the identifier region, and implementing Braille-style embossed dot patterns on to the region. Embossed dot patterns consist of the combination of 3 groups of 6 possible dots with the Braille-style shape, which is used as sign designs for those who are new to Braille to enable easy tactile recognition.

#### D.2 Conformance

This annex specifies the area (it is called the "Self-mark area") and physical characteristics of the tactile identifier sign which shall be implemented in the "Name and Address Area in clause 8.2.

#### D.3 Definitions

##### D.3.1

##### Self-mark area

the area is for tactile identifier on card surface.

#### D.4 A self mark area (area of the tactile identifier sign)

"Self mark area" is in "Name and Address Area" specified in clause 8.2. A part for 3 of the tactile identifier sign specified the area which is 18.5mm width x 8mm long. It is desirable that "Self mark area" should locate in the lower-right position of the "Name and Address Area" as much as possible and that the "Self mark area" should locate right-hand of the rightmost end of the other embossed characters for better discrimination.

#### D.5 Physical characteristics of tactile identifier sign

Physical characteristics of "Self mark area" is specified below.

##### D.5.1 Sign composition

The tactile identifier sign consists of the convex form of a maximum of 18 points -- 6 sequence x3 line. In clause D.5.2, an aggregate of the dots on a card's long hand is specified as a "line" and an aggregate of the dots on a card's short hand is specified as a "sequence". "Line 1", "line 2" are defined from the top and "sequence 1" and "sequence 2" from the left.

##### 5.2 Sign size

It is desirable th at the size of the "Self mark" tactile identifier signs should comply the following specifications except for the height specification. The height size of convexity is the same size of ISO/IEC7811-1 calause 7.3.

Sizes below are typical value. Tolerance is not specified.

a) The distance between the neighboring "line 1 and 2" and "line 2 and 3": 2.35mm

Dimension "a" of Figure D.1.

b) The distance between the neighboring "sequence 1 and 2", "sequence 3 and 4" and "sequence 5 and 6": 2.3mm

Dimension "b" of Figure D.1.

c) The distance between the neighboring "sequence 2 and 3", "sequence 4 and 5": 4.05mm

Dimension "c" of Figure D.1.

d) The apex : $\phi$ 0.6 ~ 1.0 mm

e) The root :  $\phi$ 1.4 ~ 1.5 mm

f) The apex curvature: R0.2mm

g) The height: same as ISO/IEC7811-1 7.3

### **D.5.3 Sign design**

As tactile identifier sign points maximum of 18, it is desirable that the end users of the ID cards themselves can choose which points to be convex. Moreover, the number of the convex is shall be the maximum of 18 points and the minimum of 1 point.

Note: Since there are individual differences in discernment by the tactile sense, it is essential that the end user can use the combination of the points that is easy to discriminate.

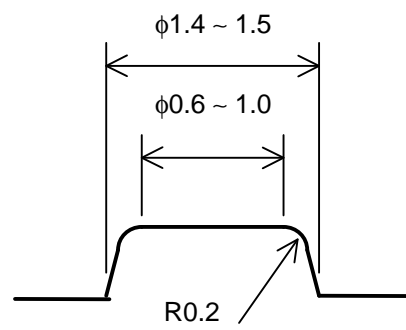
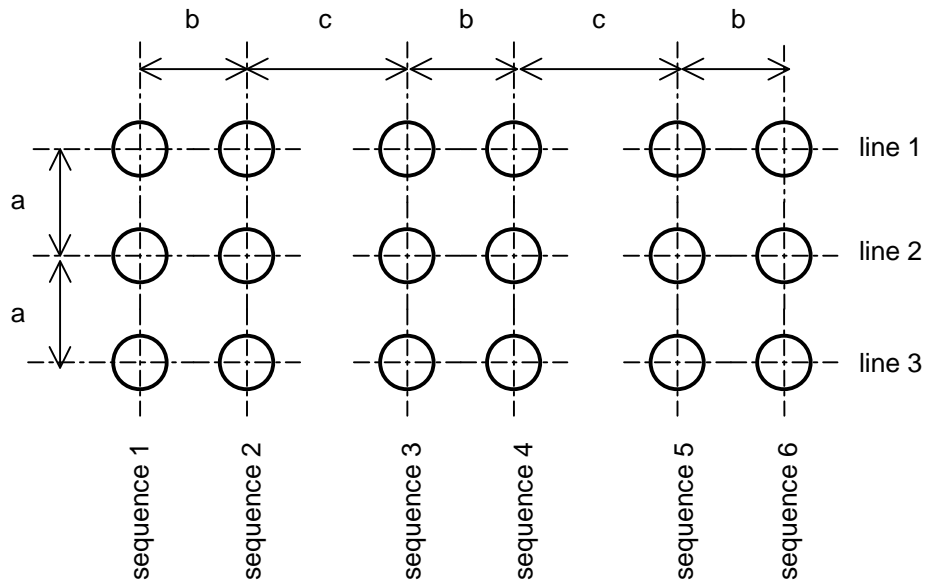


Figure D.1 Size of the Self mark