

**ISO/IEC JTC 1/SC 17**  
**Cards and personal identification**  
**Secretariat: BSI (United Kingdom)**

**Document type:** Proposed NP (Open)

**Title:** Notification of ballot: PICCs with external power supply

**Status:**

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

National bodies are reminded particularly to vote both for the proposal to be added to the SC17 work plan (Qu.2.), and also to indicate if they will be prepared to offer experts to contribute to the new work item (Qu.3.). These are the key questions upon which the success of the NP is determined.

This ballot has been sent to the secretariat of JTC1 for simultaneous ballot.

**Date of document:** 2010-11-19

**Expected action:** VOTE

**Action due date:** 2011-02-20

**Email of secretary:** [chris.starr@ukpayments.org.uk](mailto:chris.starr@ukpayments.org.uk)

**Committee URL:** <http://isotc.iso.org/livelink/livelink/open/jtc1sc17>

## G3 New Work Item Proposal

### PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2010-10-01	Proposer: ISO/IEC JTC 1/SC 17/WG8 <b>SC17 Resolution 638/10</b>
Secretariat: BSI (UK) National Body	ISO/IEC JTC 1/SC 17 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> <b>PICCs with external power supply</b>
<b>Scope</b> Use power supply other than the PCD-field so that PICCs with very small antenna and/or metallic environment can be compliant with ISO/IEC 14443-2.
<p><b>Purpose and justification</b></p> <p>Currently more and more small PICC form factors are penetrating the market. Very often these PICCs are attached on metal surfaces (mobile phones) or they are even operated inside a mobile phone (memory cards). These metal environments often cause additional drops in performance (reading distance). WG8 has reacted with different antenna classes, which results in different ranges for the field strength for each class, thus resulting in reduced operating range for classes with increased minimum field strength. Actively powering the PICC will allow the PICC to handle field strength down to 1,5 A/m even in metal environment, while transmitting an enhanced modulation signal will allow the PCD to pick up the PICC signal even with very bad mutual coupling between PICC and PCDs antenna, e. g. with metal environment. So PICCs with external power supply will be an innovative approach to operate very small PICC antennas with PCDs already in the field.</p>
<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 type="checkbox"/> a single International Standard</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 checked="" type="checkbox"/> amendments to the following International Standard(s) ISO/IEC 14443-2, ISO/IEC 10373-6</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 checked="" type="checkbox"/> c. Extended Timeframe</p>
<b>Relevant documents to be considered</b>
<b>Co-operation and liaison</b>
<b>Preparatory work offered with target date(s)</b>
<b>Signature:</b>

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 patents known
- If yes, please provide full information in an annex	
Are there any known accessibility requirements and/or dependencies (see: <a href="http://www.jtc1access.org">http://www.jtc1access.org</a> )? .....	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 17 Secretariat**

**Comments with respect to the proposal in general, and recommendations thereon:**

It is proposed to assign this new item to JTC 1/SC 17

**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> 2010-11-19	<b>Closing date for voting:</b> YYYY-MM-DD	<b>Signature of Secretary:</b> Chris Starr
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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"/>	Widening of ISO/IEC 14443's use cases, such as long range tags, convenient "touch points" and tags with very small antenna size.
A.2 Regulatory Context	Essential <input type="checkbox"/> Desirable <input checked="" type="checkbox"/> Supportive <input type="checkbox"/> Not Relevant <input type="checkbox"/>	
<b>B. Related Work</b>		
B.1 Completion/Maintenance of current standards	Yes <input checked="" type="checkbox"/> No <input 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"/>	

<b>C. Technical Status</b>		
C.1 Mature Technology	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
C.2 Prospective Technology	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Improvement of communication distance using very small antennas.
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"/>	
D.2 Interoperability	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>E. Cultural and Linguistic Adaptability</b>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	n.a.
<b>F. Other Justification</b>		n.a.

## 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 for a 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.