

## CEN/TC 278 New Work Item proposal form

<b>Deliverable *</b>	Resolution type	<input checked="" type="checkbox"/> Adoption of a new work item <input type="checkbox"/> Adoption of a new preliminary work item <input type="checkbox"/> Activation of preliminary work item
	Deliverable type	<input type="checkbox"/> EN <input checked="" type="checkbox"/> TS <input type="checkbox"/> TR
	Project type	<input checked="" type="checkbox"/> a new project <input type="checkbox"/> an amendment to EN <input type="checkbox"/> the revision of EN <input type="checkbox"/> the conversion of CEN/TS            into an EN <input type="checkbox"/> the new edition of CEN/TS <input type="checkbox"/> the new edition of CEN/TR
<b>Project description *</b>	Title	ISO/IEC 14443 Implementation specifications for IFM Systems
	Scope	<p>Background:</p> <p>Most IFM systems are relying on ISO/IEC 14 443 standard series for ensuring contactless communication between smart ticketing media (PICC) and contactless readers (PCD).</p> <p>The ISO/IEC 14 443 is a cross industry standard and hence offers a large set of possible options and configurations (more than 12 documents for tests &amp; specifications).</p> <p>To ensure contactless interoperability between readers and objects, different industry segments have published ISO/IEC 14 443 implementation specifications and have set up associated certifications process.</p> <p>For transit industry no global implementation specification and certification process exist:</p> <p><input checked="" type="checkbox"/> Test are done at local scale depending on each PT network interoperability area (city, county, region, country, ...)</p> <p>This is a limitation to transit interoperability and this situation is not future proofed</p> <p><input checked="" type="checkbox"/> Contactless testing of banking cards and NFC phones with transit systems cannot remain local and must be centralized.</p> <p>Work Item Proposal:</p> <p>This Work Item proposes to tackle down this issue by specifying the implementation details of the contactless communication protocol between ticketing media and readers within IFM systems.</p> <p>Considered contactless communication protocols are ISO/IEC 14443 - Parts 1 to 4 and associated testing methods defined by ISO/IEC 10373-6.</p> <p>The repository will be applicable:</p> <ul style="list-style-type: none"> <li>to any contactless terminal requiring to interact with a ticketing contactless media, and acting as an ISO/IEC 14443 PCD (reader)</li> <li>to any contactless media requiring to host a ticketing application, and acting as an ISO/IEC 14443 PICC (card)</li> </ul> <p>In addition, the repository shall satisfy the following requirements:</p> <ul style="list-style-type: none"> <li>Allow the acceptance of various form factors of contactless media such as smart cards in ISO ID1 format, contactless USB keys and contactless NFC phones.</li> <li>Facilitate the migration plan of existing ticketing terminals and minimize their migration cost, taking into account as much as possible existing RF repositories for transit ticketing system.</li> <li>Leave as much as possible the possibility for targeted terminals and media to comply additionally with other industry contactless repositories, such as EMVCO Level 1 or future NFC Forum Analog and Digital Protocol Technical Specifications.</li> </ul>

		<ul style="list-style-type: none"> <li>Provide requirements for contactless communication layers that remain independent from the used ticketing application.</li> <li>Take benefit from the latest evolutions in ISO/IEC 14443 and ISO/IEC 10373-6 (antenna classes, EMD amendment, ...).</li> </ul> <p>Specific requirements for transport to be included in this repository, if any, shall be clearly identified and justified in practice.</p> <p>Moreover, the establishment of this repository shall lead to the definition of a qualification process for ticketing terminals and media at the contactless communication protocol level.</p> <p>Given the costs required to build a repository and a qualification process "dedicated to transit" and in order to control these costs, the working group will focus as much as possible on the reuse of existing repositories and qualification processes.</p> <p>Such qualification process shall be based on the testing tools and methods defined in ISO/IEC 10373-6 and shall remain open to any ISO/IEC 14443 accredited testing lab.</p> <p>Compliance to this repository shall ensure interoperability between terminals and media at contactless communication level and avoid the need for extensive cross testing between ticketing terminals and media.</p>		
<b>Development *</b>	Drafting body	CEN/TC 278/WG 3 SG5		
	Track	<input type="checkbox"/> Enquiry + Formal Vote (EN) <input checked="" type="checkbox"/> TC approval (TS/TR) <input type="checkbox"/> 5 months UAP (EN) <i>(when adopting an ISO document or conversion of a CEN/TS into a EN without updating)</i> <input type="checkbox"/> Shortened 3 months UAP (EN) <i>(in case of Amendments)</i> <input type="checkbox"/> Primary Questionnaire + Formal Vote		
	Vienna agreement	<input checked="" type="checkbox"/> No or expected CEN lead <input type="checkbox"/> Yes, parallel ISO lead; ISO TC/      Project reference		
<b>References</b>	Reference document(s)	ISO/IEC 14443, ISO/IEC 10373-6		
	Related mandate(s)			
	Related directive(s)			
<b>Environmental aspects *</b>	Which environmental aspects are likely to be relevant to the work item?	<input type="checkbox"/> Discharges to soil <input type="checkbox"/> Heat <input type="checkbox"/> Radiation <input type="checkbox"/> Use of materials <input type="checkbox"/> Risk to the environment from accidents/ misuse	<input type="checkbox"/> Discharges to water <input type="checkbox"/> Noise/vibration <input type="checkbox"/> Use of energy <input type="checkbox"/> Use of water	<input type="checkbox"/> Emissions to air <input type="checkbox"/> Other effects on biodiversity <input type="checkbox"/> Use of land <input type="checkbox"/> Waste
		Other... Ease acceptance within IFMS of new media for hosting ticketing application (NFC phones, mutli application cards, ...)		
		None of the above. Please provide a written explanation why these do not apply to the current proposed WI...		
	How do you plan to address these issues?	<input type="checkbox"/> Bring in environmental expertise to the WG <input type="checkbox"/> Contact EHD for help / support (cen.ehd@cencenelec.com) <input type="checkbox"/> Use of environmental checklist Other...		
<b>Commitment</b> <i>(not required for preliminary WI proposals)</i>	The following CEN members (at least five) are committed to participate in the development of the project:	(1) France (2) UK (3) Germany (4) Italy ?? (5) Belgium ??	(x) Portugal ?? (x) (x) (x) (x)	

\* Mandatory sections

- 1) A proposal shall be adopted if 71.00 % or more of the weighted votes cast (abstentions not counted) are in favor (EN/TS). A TR shall be adopted when a simple majority is in favor.
- 2) Please provide a first draft when available (at a minimum an outline should be included with the proposal). This will give the national bodies a better understanding of the scope and purpose of the project.
- 3) The commitment of a CEN member to participate in the work will need to be confirmed by the national body or the national delegation at a TC meeting.