

CEN/TC 278 New Work Item proposal form

Deliverable *	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
Project description *	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 & 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"> to any contactless terminal requiring to interact with a ticketing contactless media, and acting as an ISO/IEC 14443 PCD (reader) to any contactless media requiring to host a ticketing application, and acting as an ISO/IEC 14443 PICC (card) <p>In addition, the repository shall satisfy the following requirements:</p> <ul style="list-style-type: none"> 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. 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. 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.

		<ul style="list-style-type: none"> Provide requirements for contactless communication layers that remain independent from the used ticketing application. Take benefit from the latest evolutions in ISO/IEC 14443 and ISO/IEC 10373-6 (antenna classes, EMD amendment, ...). <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>
Development *	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
References	Reference document(s)	ISO/IEC 14443, ISO/IEC 10373-6
	Related mandate(s)	
	Related directive(s)	
Environmental aspects *	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
	<input type="checkbox"/> Other... Ease acceptance within IFMS of new media for hosting ticketing application (NFC phones, mutli application cards, ...)	
	<input type="checkbox"/> 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 <input type="checkbox"/> Other...
Commitment <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)

- 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.