

Work Item details

Responsible Technical Body: ERM Work Item number: Working Group / Task Group: Sub-working group (if any) WG “RFID Starter Group”	
What type of document will be produced? EN/ EG / ES / TS / TR / SR EN EC/EFTA mandate (if any) Candidate Harmonized Standard? Not yet (requires a mandate) Directive: M/xyz	Is it a NEW document or a REVISION of an existing one? <p align="center"><u>New</u></p>
Title: Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Radio Frequency Identification Devices (RFID); Technical requirements for avoidance of fraud; Harmonized Standard covering the essential requirements under article 3.3 of the R&TTE directive <i>(in case of mandate)</i>	Scope: This new EN describes the technical requirements for RFID interrogators and tags for the purpose of interworking (RTTE article 3.3a), prevention of harm to/ misuse of the network (RTTE article 3.3b), privacy of data (RTTE article 3.3c) and avoidance of fraud (RTTE article 3.3d) such as: 3.3a <ul style="list-style-type: none"> ● compliance with addressing schemes used within networks ● compliance with / capability of traffic prioritization ● secured protocols (e.g. encryption) ● mutual authentication 3.3b <ul style="list-style-type: none"> ● compatibility with network interfaces ● compatibility with standard network procedures ● compatibility of identifiers (in the case, they are intended to be used for addressing/routing purposes) ● prevention of unauthorized use of identifiers (numbering, addressing) 3.3c <ul style="list-style-type: none"> ● mechanisms to control data read process by the possessor of the tag / tagged product ● mechanisms to disable / to kill tags ● notification of reading process ● mutual authentication between tag and interrogator ● secured protocols / encryption procedures to prevent unauthorized listening 3.3d <ul style="list-style-type: none"> ● Prevention of unauthorized access from tags to the network ● unauthorized access from the network to

	<p>tags</p> <ul style="list-style-type: none"> • unauthorized data storage on tags and/or in interrogators • unauthorized data combination • unauthorized use of identifiers (numbering, addressing) • data corruption / unintended data change (in the tag, on transport, in applications)
<p>Rapporteur (name individual person):</p> <p>First name:</p> <p>Last name:</p> <p>Organisation:</p> <p>E-mail:</p>	<p>Supporting ETSI Member organisations: (name at least 4)</p> <ul style="list-style-type: none"> • BMW • Tbd (additional members)

Work schedule:

<u>Progress milestone</u>	<u>Target date</u>
Date of creation of this Work Item	25 February 2008
Date Work Item adopted by Technical Body	6 March 2008
Start of work date:	
ToC and Scope:	
Stable Draft:	
TG approval:	
ERM approval:	
<p><u>For EN deliverables only:</u></p> <p>Is draft EN to be approved by One-step Approval Procedure or Two-step Approval Procedure? OAP / TAP</p>	

Remarks: The NWI is proposed for an new EN; the deliverable is going to become a new Harmonized Standard may in case of a standardization mandate from the EC that is accepted by the ETSI Board

The outcome of work may be split in more than one document. Such a decision would result from the standardization work. Since some subjects are considered to be linked together the proposal at date of adoption is for a one part deliverable.

Further technical requirements to fulfil essential requirements under RTTE article 3.3e and/or 3.3f may be identified in the course of action

Work is proposed to commence in a "RFID starters group" attached to TC ERM. The reason for this is that the existing RFID activities on RFID radio aspects are allocated in ERM TG28 and ERM TG34. However, based on the future development of this new work in ETSI, it may be transferred to another technical organization inside ETSI if so decided. No effect on ongoing work in ERM TG28 and TG 34 is expected.

Draft ToR and rules of procedures

ERM TG <<RFID Starters Group>>s

The TG shall have one Chairman who shall be appointed in accordance with the ETSI Directives.

The responsibilities of the Chairman are defined in the ETSI Directives.

The ETSI secretariat should provide a secretary who shall assist the Chairman..

Organisational issues

The TG Chairman shall prepare and provide a timetable which allocates the meeting sessions to the different activities.

Document handling for meetings and document numbering

Standard ETSI document numbering shall be used.

[example]

Meeting documents shall be uploaded by using the ETSI portal's web interface.

The deadline for uploading documents that require a decision is set to seven days prior to the meeting. All other documents shall be uploaded by the Friday preceding the TG meeting 12:00 noon ETSI time at the latest. This shall not apply for documents produced during the meeting as a result thereof.

Work item references

TC ERM Work item references shall be used

Deliverables

Draft deliverables shall be made available via the Latest Draft application on the ETSI portal.

Deliverables shall be approved in accordance with the Technical Working Procedures.

Email Exploder Lists

The TG has the following email exploder lists:

[tbd]

NOTE: These email exploder lists are open to ETSI members only

Draft Terms of Reference

The TG shall work on the following RFID subjects:

Prevention of

- unauthorized access from TAGs to the network
- unauthorized access from the network to TAGs
- unauthorized data storage on TAGs and/or in readers/writers
- unauthorized data combination
- unauthorized use of identifiers
(numbering, addressing)
- data corruption / unintended data change
(in the tag, on transport, in applications)

Compliance with addressing schemes used within networks

Compliance with / capability of traffic prioritization

Secured protocols (e.g. encryption)

Mutual authentication

- on interface TAG-reader/writer
- on network interface reader/writer
 - transport
 - service
 - application

Compatibility with network interfaces

- hardware
- transport protocols
- routing mechanisms

Compatibility with standard network procedures

- traffic control
- routing
- prioritization

Compatibility of identifiers

(in the case, they are intended to be used for addressing/routing purposes)

- prevention of unauthorized use of identifiers
(numbering, addressing)

Mechanisms to control data read process by the possessor of the tag / tagged product
(e.g. consumer/end-user, logistic company,...)

Mechanisms to disable / to kill tags

- (by consumer / commercial end-user)
e.g. Opt-In-Procedure at point of Sale

Notification of reading process

Mutual authentication between tag and reader/writer

Secured protocols / encryption procedures to prevent unauthorized listening

TAG-Reader-IFcommunication within the network / services / applications

The TG will assume all responsibility for its own the administration requirements, overall liaison with other committees and groups in ETSI and the efficient running of the TG on matters of the identified core subjects above.

This includes:

- Progress (duty to provide a progress report to the OCG and ERM)
- Meetings
- Quality Assurance
- Liaisons with other ETSI Committees/OCG/Board
- Liaisons with external organisations (ITU, ISO, CEN, SAE, IEEE, TIA, ATIS, ARIB, ETRI, APEC, etc.)
- Documentation
- Cross TG issues