

**Terrestrial Trunked Radio (TETRA);  
Subscriber Identity Module to Mobile Equipment  
(SIM-ME) interface;  
Part 1: Universal Integrated Circuit Card (UICC);  
Physical and logical characteristics**

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Reference

RES/TETRA-03127

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Keywords

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## Foreword

This ETSI Standard (ES) has been produced by ETSI Project Terrestrial Trunked Radio (TETRA), and is now submitted for the ETSI standards Membership Approval Procedure.

The present document is part 1 of a multi-part deliverable covering the Subscriber Identity Module to Mobile Equipment (SIM-ME) interface, as identified below:

**ES 200 812-1: "Universal Integrated Circuit Card (UICC); Physical and logical characteristics";**

ES 200 812-2: "Universal Integrated Circuit Card (UICC); characteristics of the TSIM application";

EN 200 812-3: "Integrated Circuit (IC); physical, logical and TSIM application characteristics".

NOTE: Part 3 was originally published as EN 300 812 and defines different technology than part 1 and part 2.

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## Introduction

The present document defines a generic terminal/Integrated Circuit Card (ICC) interface. The present document is independent of the TETRA application and can thus be the platform for any IC card application.

The aim of the present document is to ensure interoperability between an ICC and a terminal independently of the respective manufacturer, card issuer or operator. The present document does not define any aspects related to the administrative management phase of the ICC. Any internal technical realization of either the ICC or the terminal is only specified where these are reflected over the interface.

Application specific details for applications residing on an ICC are specified in the respective application specific documents.

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# 1 Scope

The present document specifies the interface between the UICC and the terminal.

The present document specifies:

- the requirements for the physical characteristics of the UICC;
- the electrical interface between the UICC and the terminal;
- the initial communication establishment and the transport protocols;
- the model which serves as a basis for the logical structure of the UICC;
- the communication commands and the procedures;
- the application independent files and protocols.

The administrative procedures and initial card management are not part of the present document.

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# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] ETSI TS 102 221: "Smart cards; UICC-Terminal interface; Physical and logical characteristics (Release 5)".
- [2] ETSI TS 100 812-2: "Terrestrial Trunked Radio (TETRA); Subscriber Identity Module to Mobile Equipment (SIM-ME) interface; Part 2: Characteristics of the TSIM application".

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# 3 Definitions, symbols, abbreviations and coding

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 102 221 [1] apply.

## 3.2 Symbols

For the purposes of the present document, the symbols defined in TS 102 221 [1] apply.

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations defined in TS 102 221 [1] apply.

## 3.4 Coding

For the purposes of the present document, the coding defined in TS 102 221 [1] applies.

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# 4 Physical and logical characteristics

The UICC/terminal interface shall comply with all requirements stated in TS 102 221 [1]. Where options are indicated in TS 102 221 [1], TS 100 812-2 [2] specifies which option shall be used for a UICC/terminal interface where the UICC supports a TSIM.

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## Annex A (informative): Change Requests

The present document contain Change Requests as described in table A.1.

**Table A.1: Change Requests**

<b>CR No</b>	<b>CR vers</b>	<b>Version</b>	<b>TS</b>	<b>ES</b>	<b>Clauses affected</b>	<b>Title</b>	<b>Source</b>	<b>CR Status</b>
001	10	V2.2.2	X	X	4	Essential Correction on TETRA TSIM application	Schlumberger	EPT approved 030618

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## History

<b>Document history</b>		
V2.2.1	April 2002	Publication as TS 100 812-1
V2.2.2	September 2002	Publication
V2.2.5	October 2003	Publication as TS 100 812-1
V2.2.5	October 2003	Membership Approval Procedure    MV 20031212: 2003-10-14 to 2003-12-12