



**Smart Cards;  
Test specification for the  
Single Wire Protocol (SWP) interface;  
Part 1: Terminal features  
(Release 8)**

*Standard for Review*  
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**Keywords**smart card, terminal

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# Contents

Intellectual Property Rights .....	4
Foreword.....	4
Modal verbs terminology.....	5
Introduction .....	5
1 Scope .....	6
2 References .....	6
2.1 Normative references .....	6
2.2 Informative references.....	7
3 Definition of terms, symbols and abbreviations.....	7
3.1 Terms.....	7
3.2 Symbols.....	7
3.3 Abbreviations .....	7
4 Test environment.....	7
5 Test cases.....	7
<b>Annex A: Void .....</b>	<b>8</b>
<b>Annex B (informative): Core specification version information.....</b>	<b>9</b>
<b>Annex C (informative): Change history .....</b>	<b>10</b>
History .....	11

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# Foreword

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Version x.y.z

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

The present document is part 1 of a multi-part deliverable covering the Test specification for the Single Wire Protocol (SWP) interface, as identified below:

**Part 1: "Terminal features";**

Part 2: "UICC features".

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## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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## Introduction

The present document defines test cases for the terminal relating to Single Wire Protocol (SWP). SWP is the communication interface between the UICC and a contactless frontend (CLF) as specified in ETSI TS 102 613 [1].

The aim of the present document is to ensure interoperability between the terminal and the UICC independently of the respective manufacturer, card issuer or operator.

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# 1 Scope

The present document covers the minimum characteristics which are considered necessary for the terminal in order to provide compliance to ETSI TS 102 613 [1].

The present document specifies the test cases for:

- the physical layer of the interface CLF - UICC;
- the electrical interface of the CLF;
- the initial communication establishment CLF - UICC;
- the data link layer.

Test cases for the UICC relating to ETSI TS 102 613 [1] and test cases for the host controller interface (HCI) covering both terminal and UICC are out of scope of the present document.

---

## 2 References

### 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

- In the case of a reference to a TC SCP document, a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

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The following referenced documents are necessary for the application of the present document.

- |      |   |
|------|---|
| [1]  | ETSI TS 102 613: "Smart Cards; UICC - Contactless Front-end (CLF) Interface; Part 1: Physical and data link layer characteristics".       |
| [2]  | Void.   |
| [3]  | Void.   |
| [4]  | Void.   |
| [5]  | Void.   |
| [6]  | Void.   |
| [7]  | Void.   |
| [8]  | Void.   |
| [9]  | Void.   |
| [10] | Void.   |
| [11] | ETSI TS 102 694-1: "Smart Cards; Test specification for the Single Wire Protocol (SWP) interface; Part 1: Terminal features (Release 9)". |

## 2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

Void.

### 3.2 Symbols

Void.

### 3.3 Abbreviations

Void.

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## 4 Test environment

Void.

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## 5 Test cases

All test cases are present in ETSI TS 102 694-1 [11].

Annex A:  
Void

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# Annex B (informative): Core specification version information

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