

Integrated Circuits Cards (ICC); Definitions of differences and their hierarchical relationship



European Telecommunications Standards Institute

Reference

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Keywords

Card

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Integrated Circuits Cards (ICC).

1 Scope

The present document provides definitions for ETSI telecommunication Integrated Circuits (IC) card applications, to be used in the creation of the "ETSI IC Card core specification" TS 101 221 and the "ETSI IC Card log of differences" TR 101 222 (for both see annex A, bibliography).

The present document also shows the cause-effect relationship between the various types of difference which can arise.

2 Hierarchy of differences

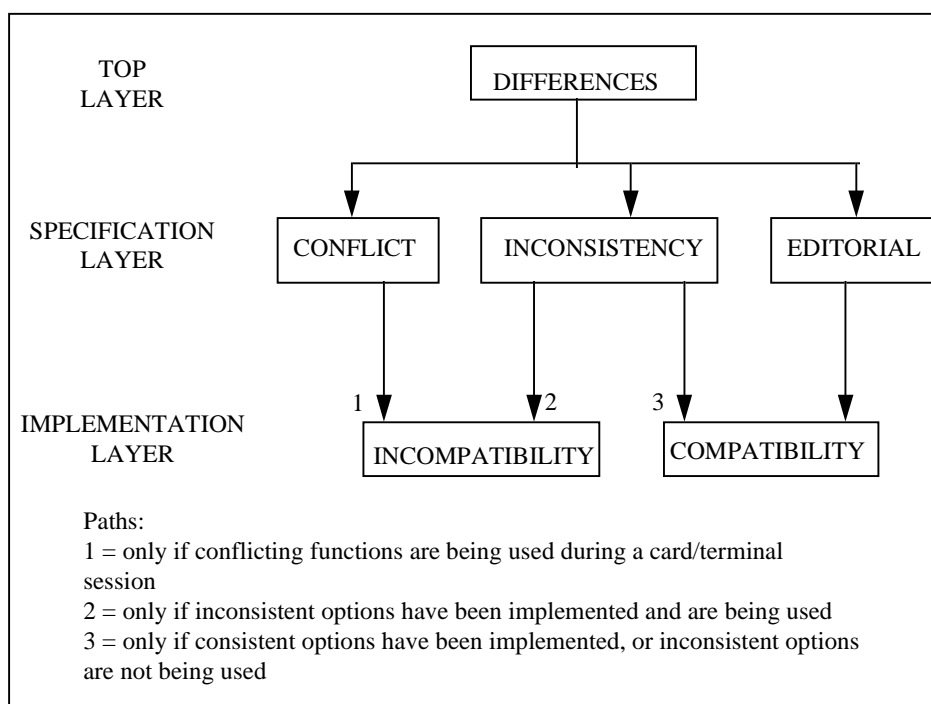


Figure 1: Hierarchy of differences

3 Top layer definitions

3.1 Difference

Difference: Functions or options are not specified identically or are not supported identically in the various specifications.

4 Specifications layer definitions

4.1 Conflict

Conflict: A difference in specifications which will prevent the use of a specific card feature in a specific terminal even if the feature in both card and terminal is implemented using all available, relevant options of their respective specifications.

4.2 Inconsistency

Inconsistency: A difference in specifications where sufficient options are provided for cards and terminals to prevent an incompatibility arising, provided that mutually consistent options are implemented in the cards and the terminals.

4.3 Editorial

Editorial: a difference in specifications which reflects different use of terminology, but which cannot give rise to an incompatibility.

5 Implementation layer definitions

5.1 Incompatibility

Incompatibility: A situation where a specific card and a specific terminal do not work together, either because they have been implemented according to conflicting specifications, or according to inconsistent sets of options.

5.2 Compatibility

Compatibility: A situation where a specific card and a specific terminal can work together, despite differences in specifications, for one or more of the following reasons:

- a) differences in specifications are "editorial" only;
- b) mutually consistent sets of options have been implemented from "inconsistent" specifications;
- c) "inconsistent" sets of options have been implemented but are not being used during that card/terminal session.

Annex A (informative): Bibliography

The following material, though not specifically referenced in the body of the present document, gives supporting information.

- TS 101 221: "Integrated Circuits Cards (ICC); ETSI IC Card core specification".
- TR 101 222: "Integrated Circuits Cards (ICC); ETSI IC Card log of differences".

History

Document history		
V1.1.1	August 1997	Publication