

DIN CEN/TS 15480-1:2013-01 (E)

Identification card systems - European Citizen Card - Part 1: Physical, electrical and transport protocol characteristics; English version CEN/TS 15480-1:2012

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Symbols and abbreviations	8
5	ECC requirements for citizen identification using physical means	8
6	ECC physical characteristics	9
6.1	General	9
6.2	Materials	10
6.3	ECC physical security elements	10
6.3.1	General	10
6.3.2	Security levels	11
6.3.3	Security elements	11
6.3.4	Background and text printing	11
6.3.5	Ink and other imaging media	12
6.4	Durability	12
7	Electrical characteristics	12
7.1	Dimensions and location of the contacts or coupling area	12
7.2	The contact interface	12
7.3	Contactless interface	12
8	Transport protocols	13
9	Terminal characteristics	13
Annex A (informative)	Recommendations for the layout of the ECC	14
A.1	Introduction	14
A.2	ICAO 9303-3-based layout with contacts	14
A.2.1	Document zones and information related	14
A.2.2	Card size and printing margins	15
A.2.3	Location of the contact module in the card	15
A.2.4	Portrait side	15
A.2.5	Non-portrait side	18
A.2.6	Security Features for both portrait and non-portrait side	19
A.3	ICAO 9303-3-based contactless layout	20
A.4	Enhancements for the ECC layout	21
A.4.1	General	21
A.4.2	Zone I enhancements	21
A.4.3	Zone II enhancements	21
A.4.4	Zone IV enhancements	21
A.4.5	Zone VII enhancements	21

A.4.6	Optional elements	21
A.4.7	Printing margins	22
Bibliography		23