

ISO/IEC 29109-1:2009-08 (E)

Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 1: Generalized conformance testing methodology

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	2
5	Abbreviated terms	5
6	Conformance testing framework	5
6.1	Limitations	5
6.2	Managing data records	5
6.3	Conformance testing types	6
6.4	Conformance testing levels	6
6.4.1	Hierarchy of Conformance Tests	6
6.4.2	Level 1 -- Data format conformance	6
6.4.3	Level 2 -- Internal consistency checking	7
6.4.4	Level 3 -- Content checking	7
6.5	Sample data sets for Level 3 conformance testing	8
7	Common assertion descriptors for Level 1 and 2 testing	9
7.1	General considerations	9
7.2	Assertions for big-endian encoding	10
7.3	Assertion element descriptions	10
7.3.1	Purpose of common assertion descriptions	10
7.3.2	Field Names	10
7.3.3	Operators	10
7.3.4	Operands	11
7.3.5	Other assertion elements	12
8	Conformance testing and reporting methodology	12
8.1	Conformance requirements and implementation conformance statement	12
8.1.1	Necessity of clear description of requirements and capabilities	12
8.1.2	Claimed conformance and declared conformance	13
8.1.3	Requirements of the base standard	13
8.1.4	Explanations of columns in requirements table	15
8.1.5	Level 1 and Level 2 conformance assertions	17
8.1.6	Explanations of columns in Level 1 and Level 2 assertions table	21
8.2	Test procedures	22
8.2.1	Basic test workflow	22
8.2.2	Minimum number of BDIRs and IBDRs required	23
8.3	Test reports	24
8.3.1	Purpose of the test report	24
8.3.2	Minimum content of the test report	24

Bibliography 26