

ISO/IEC 24713-1:2008-03 (E)

Information technology - Biometric profiles for interoperability and data interchange - Part 1: Overview of biometric systems and biometric profiles

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Abbreviated terms	6
5	General biometric system	6
5.1	Conceptual diagram of general biometric system	6
5.2	Conceptual components of a general biometric system	7
5.2.1	Data capture subsystem	7
5.2.2	Transmission subsystem (not portrayed in diagram)	7
5.2.3	Signal processing subsystem	7
5.2.4	Data storage subsystem	7
5.2.5	Matching subsystem	7
5.2.6	5.2.6 Decision subsystem	7
5.2.7	5.2.7 Administration subsystem (not portrayed in diagram)	8
5.2.8	Interface (not portrayed in diagram)	8
5.3	Functions of general biometric system	8
5.3.1	Enrolment	8
5.3.2	Verification	9
5.3.3	Identification	9
6	Relationship between the biometric system and the application	10
6.1	General	10
6.2	The ID life-cycle	10
6.2.1	Proofing	11
6.2.2	Registration	11
6.2.3	Issuance	11
6.2.4	Usage	11
6.3	Subject versus end-user	11
6.3.1	6.3.1 Access control example	12
6.3.2	Travel document example	12
6.4	Biometric decision versus authorization	13
7	Interfaces between the biometric system and the application	14
7.1	Application programming interface (API)	14
7.2	Protocol interface	15
7.3	Hardware based electronic input/output interface	15
8	Developing biometric profiles utilising biometrics base standards	15
8.1	Relationships of biometric base standards and their use in biometric profiles	15
8.2	Classes	16
8.2.1	Application class	16
8.2.2	Data class	16
8.2.3	Interface class	17

8.3	Using biometric base standards to develop biometric profiles	17
	Bibliography	18