

# ISO/IEC 19794-1:2006-04 (E)

## Information technology - Biometric data interchange formats - Part 1: Framework

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Abbreviated terms .....	4
5	General biometric system .....	4
5.1	Conceptual diagram of general biometric system .....	4
5.2	Conceptual components of a general biometric system .....	5
5.2.1	Data capture subsystem .....	5
5.2.2	Transmission subsystem .....	5
5.2.3	Signal processing subsystem .....	5
5.2.4	Data storage subsystem .....	5
5.2.5	Matching subsystem .....	5
5.2.6	Decision subsystem .....	5
5.2.7	Administration subsystem .....	6
5.2.8	Interface .....	6
5.3	Functions of general biometric system .....	6
5.3.1	Enrolment .....	6
5.3.2	Verification .....	7
5.3.3	Identification .....	7
6	Usage context of biometric data interchange formats .....	8
7	General aspects of the usage of biometric data for interchange .....	8
7.1	Introduction .....	8
7.2	Natural variability .....	8
7.3	Aging and usage duration .....	9
7.4	Enrolment conditions .....	9
7.5	Feature extraction algorithms .....	9
7.6	Feature matching algorithms .....	9
7.7	Capture device type ID .....	9
7.8	Multi-modal data structures .....	9
8	Processing level of data formats for interchange .....	9
8.2	Sensor data .....	10
8.3	Image data .....	10
8.4	Behavioural data .....	10
8.5	Feature data .....	10
8.6	Naming concept for biometric data structures .....	11
8.7	Requirements for standardizing biometric data formats .....	11
9	Multi-biometrics .....	11
10	Sensor requirements .....	12

11	Format owner and format types .....	12
11.1	Format owner .....	12
11.2	Format types .....	12
	Annex A (informative) Examples of matching scenarios .....	13
	Bibliography .....	15