

ISO/IEC 29141:2009-12 (E)

Information technology - Biometrics - Tenprint capture using biometric application programming interface (BioAPI)

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	1
5	Abbreviated terms	3
6	Requirements	3
7	BioAPI function calls	4
7.1	BioAPI_ControlUnit()	4
7.1.1	Usage	4
7.1.2	Function definition	4
7.1.3	Parameters	4
7.2	BioAPI_Capture()	5
7.2.1	Usage	5
7.2.2	Function definition	5
7.2.3	Parameters	5
7.2.4	Additional error return codes	6
7.3	BioAPI_QueryUnits()	6
7.3.1	Usage	6
7.3.2	Function definition	6
7.3.3	Parameters	6
7.3.4	BioAPI_UNIT_SCHEMA	7
8	Capture control blocks (CCB)	9
9	Record types and fields	9
9.1	Control and required fields	9
9.2	Image height and width	11
9.3	Image data	11
9.4	Amputated or bandaged fingers	11
9.4.1	Type-4 records	11
9.4.2	Type-14 records	11
9.5	Capture resolution	12
9.6	Image compression	12
9.7	Selecting images to be captured	12
9.8	Calculation of finger segment position	13
9.9	Segmentation quality	13
9.10	Image quality	13
9.10.1	General	13
9.10.2	Setting quality thresholds	13
9.11	Bits per pixel	14
9.12	Date printed	14

9.13	Image capture equipment	14
10	Returned BIR	14
10.1	BIR header	14
10.2	BDB format	15
11	Error codes	15
11.1	Unable to parse	15
11.2	Roll capture not supported	15
11.3	Slap capture not supported	15
11.4	Segment position calculation not supported	15
11.5	Quality algorithm not supported	15
11.6	Compression algorithm not supported	15
11.7	Segment position calculation algorithm not supported	16
11.8	Image resolution not supported	16
11.9	Type-4 records not supported	16
11.10	Type-14 records not supported	16
11.11	Finger position not supported	16
12	Example capture orders	16
Annex A (informative) Example capture control blocks (CCB) for acquisition of images		18
A.1	Three slaps (FANC TOT)	18
A.1.1	Type-1 record	18
A.1.2	Type-2 record (IDC 0)	18
A.1.3	Type-14 record (IDC 1)	18
A.1.4	Type-14 record (IDC 2)	19
A.1.5	Type-14 record (IDC 3)	19
A.2	Ten plain impressions (no TOT)	20
A.2.1	Type-1 record	20
A.2.2	Type-2 record (IDC 0)	20
A.2.3	Type-4 record (IDC 1)	20
A.2.4	Type-4 record (IDC 2)	20
A.2.5	Type-4 record (IDC 3)	21
A.2.6	Type-4 record (IDC 4)	21
A.2.7	Type-4 record (IDC 5)	21
A.2.8	Type-4 record (IDC 6)	22
A.2.9	Type-4 record (IDC 7)	22
A.2.10	Type-4 record (IDC 8)	22
A.2.11	Type-4 record (IDC 9)	23
A.2.12	Type-4 record (IDC 10)	23
Annex B (informative) BioAPI calling sequence example		24