

# DIN CEN/TS 16634:2014-06 (E)

Personal identification - Recommendations for using biometrics in European Automated Border Control; English version CEN/TS 16634:2014

---

<b>Contents</b>	<b>Page</b>
Foreword.....	3
Introduction .....	4
1 Scope .....	5
2 Terms and definitions .....	5
3 Abbreviated terms .....	8
4 ABC systems - an overview .....	9
4.1 Concept.....	9
4.2 Biometric references .....	9
4.3 Types of travel documents .....	10
4.3.1 General.....	10
4.3.2 National identity cards .....	10
4.3.3 Biometric passports .....	10
4.3.4 Schengen visa.....	11
4.4 Topologies of ABC systems .....	11
5 Biometric systems in ABC .....	11
5.1 General recommendations .....	11
5.1.1 Usability and accessibility .....	11
5.1.2 Architecture.....	13
5.1.3 Biometric security functions .....	15
5.1.4 Logging, data protection and privacy.....	20
5.2 Recommendations for face biometrics .....	20
5.2.1 Condition for good quality sample acquisition .....	20
5.2.2 Biometric verification and process design .....	21
5.2.3 Security.....	22
5.2.4 Usability and environment.....	23
5.3 Recommendations for fingerprint biometrics .....	23
5.3.1 Condition for good quality sample acquisition .....	23
5.3.2 Biometric verification and process design .....	24
5.3.3 Usability and environment.....	24
5.4 Recommendations for iris biometrics .....	25
5.4.1 Condition for good quality sample acquisition .....	25
5.4.2 Biometric verification and process design .....	26
5.4.3 Security.....	27
5.4.4 Usability and environment.....	27
Annex A (informative) Testing examples — Facial Images.....	29
Annex B (informative) Example process for multi-camera systems for 3D face recognition .....	30
Bibliography .....	32