
Advanced Biometrics for Counter Terrorism

(and for state of the art services for EU citizens?)

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MATURE TECHNOLOGIES ENSURE BETTER RESULTS

The three essentials for applications dealing with biometric data:

- Interoperability,
- Authenticity, and
- Quality.

Revisit best practice recommendations from time to time.

Make use of standards wherever possible.

Consider backwards compatibility, in particular in large scale applications.

Privacy by design saves time and money.

Similar requirements to authentication technology apply to many different applications.

PASSPORTS ARE IN TRANSITION FROM BOOKLET TO SYSTEM

Passports booklets are only one part of a huge system:

- Document,
- Registration, enrolment, and issuance systems,
- Passport, visa, and entry/exit databases,
- Digital credentials (e.g. DTC), mobile documents (e.g. mDL), and
- Inspection systems.

ISO/IEC 39794-X: Third generation biometric data formats support the transition of passports:

- What biometric data do we have in our (physical or virtual) passports in ten or twenty years?

COVID-19 SPEEDS UP PROCESSES THAT STARTED ANYWAY

Has COVID-19 an impact on biometric ID technologies?

- Yes and no.

Can there be an (r)evolutionary development at border gates?

- Maintain interoperability, consider very long transition times.

What trends in biometric technology may be expected?

- Touch-less sensors everywhere.
- Ease of use matters.
- Security aspects get increased attention: PAD, morphing, etc.
- Higher quality and more comprehensive data of the face region.
- Facial images used for more than just face recognition.
- Many more modalities, fusion, also with context data.

Thank you.

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ISO/IEC 19794-5, 39794-5, ICAO Portrait Quality TR – Editor

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