



**GLOBAL TRUST CENTER**

Enabling trust in the digital world

## Anonymous Biometrics under the GTC Policy

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# Agenda

- Biometrics and identity
- Physical vs digital identity
- Biometrics and eID
- Protection of biometric information
- GTC Policy on anonymous biometrics

# Biometrics and Identity

- Classic Biometrics = who you are
- Perceived link between identity and biometrics
- History of biometrics comes from physical world
  - Law enforcement
  - (semi-) Supervised applications
- Crossover between physical and digital world
- Different risk profiles (stealing, spoofing, manipulating):
  - Physical risk is limited and manageable
  - Digital risk is hard to manage

# What do biometrics say about identity?

- Answer:
  - as much as you want
  - as less as you want
- Depends on what data are connected to the biometric information (by the user / with consent)
- If no data are connected, biometrics are anonymous and can be disconnected from identity
- Moving from identification to verification

# Biometrics and e-ID

- No policies available for biometrics in electronic environments
  - National e-ID: only 'ICAO biometrics'
  - Workshop e-Authentication: no functional positioning of biometrics (just some general privacy statements)
  - No adoption of biometrics in any of the MS requirements on National e-ID cards to support e-services
- Hybrid ID-cards: biometrics only for border control
- Authenticity/integrity of biometric data: high risk in unsupervised scenarios
- Unclear purpose (identification vs verification)

# Protection of Biometric information

- Biometric template can not be used to re-create the biometric raw data
- Template is not being recognized as being biometric data
- Biometric can not be used for 1:n search (no identification)
- No raw biometric data shall leave the user's biometric template generating system

# GTC policy on Anonymous Biometrics

- GTC Policy on anonymous biometrics:
  - What you have
  - What you know
- No link to root identity or claimed identity
- Biometric information can be any modality from any person (“I am the only one who knows which biometric and from who”)
- As long as it is the same as originally enrolled for a specific service
- Result: full user empowerment

## 4 GTC Policies on Anonymous Biometrics

- Unsupervised Biometric Enrolment using a Third Party
- Biometric Verification using a third party
- Unsupervised Enrolment using a Personal Device
- Biometric Verification using a Personal Device

**Goal:** access to ASP services, using biometrics as an extra convenient key



# GTC Biometrics Policy Committee

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Thanks for your attention