

European Commissions' Open Source Strategy

"Think Open"

- The Commission's strategy for the internal use of Open Source Software was first adopted in 2000, and has since been updated three times
- Vision for encouraging and leveraging the transformative, innovative and collaborative power of open source, its principles and development practices
- Promotes the sharing and reuse of software solutions, knowledge and expertise, to deliver better European services that benefit society and lower costs to that society



eu-LISA approach for standardization & open source

- eu-LISA promotes standardization and open source due to various reasons
 - better interoperability between systems
 - ☐ transportability across framework contracts
 - □ technology agnostic solutions offer
 - ☐ financial advantages (reduced license and operational costs)
 - ☐ resource optimization (less projects)
- open-source solutions used in the biometric domain
 - NIST containers for biometric data exchange
 - □ NFIQ2
- open-source solutions awaited
 - □ standardized scalar metrics and quality components for FI quality (ISO)



"NFIQ2"-like algorithm for face?

Disadvantages

proprietary libraries may be better tailored to a specific matching engine

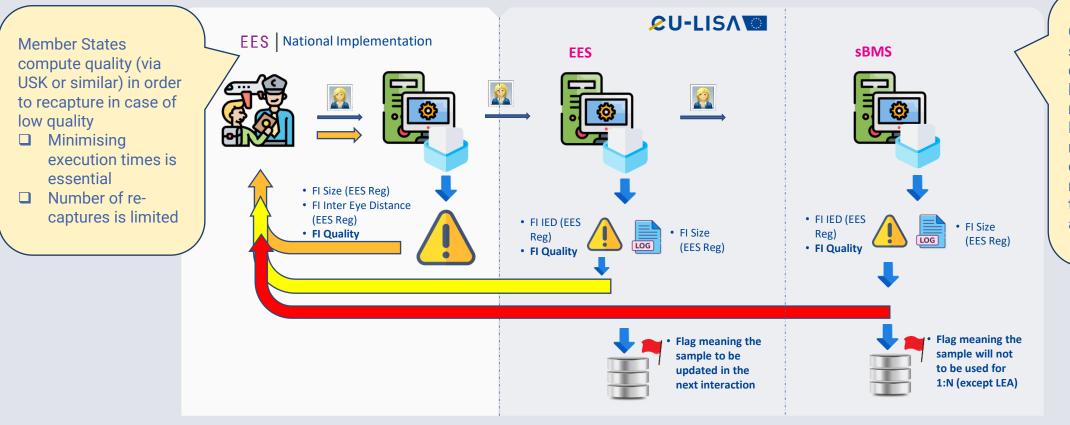
Advantages

- □ no vendor lock-in
- ☐ reduced impact in case of a contractor change
 - □ no replacement of the USK on (ten)thousands of national workstations and mobile devices – convenient for both eu-LISA and Member states
- □ allows for maintaining the already defined quality thresholds across technologies/contracts



eu-LISA quality assessment application logic

Quality assessment, as part of the application logic, supports business operation through avoiding bad input to the underlying biometric system



On central side (EES, sBMS) quality is recomputed to enforce legislative requirements Flagging (indication to re-enrol asap; no 1:N operations) and rejection in sBMS due to technical reasons are possible

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eu-LISA requirements on FI quality assessment

Legislative conformance

- eu-LISA shall comply to the relevant regulation
- eu-LISA plans to recommend the usage of ISO/IEC 29794-5 and its reference implementation in future European legislation
- ☐ GDPR-compliant solution with as little bias as possible

Importance of performance

- ☐ Vendor agnostic reliable prediction of utility independent of current matching system
- Satisfaction of strict timing SLAs

Importance of conformance and reproducibility

- □ Reproducibility of computed values and strict conformance is highly valued in our interoperable scenario
- Importance of maintenance
 - Open-source collaboration and maintenance



THANK YOU!

eu-LISA

European Union Agency for the Operational Management of Large-Scale IT Systems in the Area of Freedom, Security and Justice

Vesilennuki 5, 10415 Tallinn, Estonia

www.eulisa.europa.eu

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