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tde4nge

(Lead: fragmentiX Storage Solutions GmbH)



Project abstract

TDE4NGS will provide a “privacy by design”, very useful and worldwide commercially available and affordable application / set of applications – for the benefit of humans.

To achieve conformity with GDPR requirement and to guarantee the privacy and the patient’s full sovereignty of his/her medical data the concept consists of strong cryptography in the form of (1) fragmentiX secret sharing as security for data-at-rest, and (2) strong encryption as security for data-on-transit including post-quantum cryptography. Especially in situations where sensitive patient related data must be securely transferred to, e.g., a different health provider (independent physicians, hospitals...), potentially abroad, or from the health provider to the patient’s premises the protection against theft, leak or espionage will be provided with ITS (information-theoretic security) or as close to ITS as technically possible.