GDPR

Technological Requirements & Awareness

sedicii

www.sedicii.com

SUMMARY

“WE WANT TO WORK FOR AN AMBITIOUS ‘STATE OF THE ART’ CAPABLE OF EFFECTIVELY PROTECTING INDIVIDUALS THROUGH ADEQUATE PROCESSES AND TECHNOLOGY.”

Giovanni Buttarelli *- The European Data Protection Supervisor*

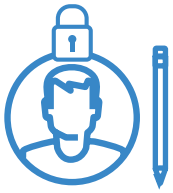
GDPR requirements are not being properly tackled by businesses and data controllers. Current approaches seem to underestimate the magnitude of the requirements and the need for cutting-edge privacy technologies. While challenging to implement, gaining an understanding of these obligations is the first challenge of businesses to enable effective compliance.

In contrast, the European Data Protection Supervisor (EDPS) continues to discuss the technological requirements, their multiple implications, and the possible solutions. The EDPS focuses on the state of the art technologies and urges their adoption in the context of GDPR. Our initiative urges the need to bring these discussions and knowledge to businesses working towards GDPR compliance to achieve data governance and organisational accountability.

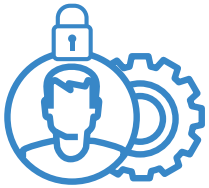
STATE OF THE ART TECHNOLOGICAL REQUIREMENTS

"The GDPR requires advanced and "state of the art" technological solutions for compliance. Thre is no good excuse to use less advanced solutions."

Wojciech Wiewiórowski *- Assistant Supervisor at the EDPS*



Privacy & Data Protection by Design



Privacy & Data Protection by Default

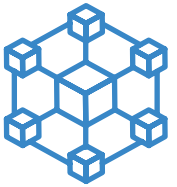
Accountability

Pseudonymisation

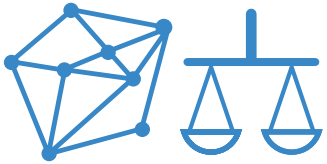
Security

Encryption

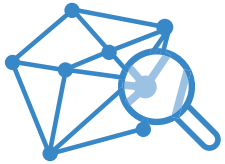
Anonymisation



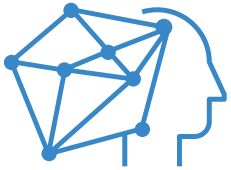
Data Portability



Fair & Non-Discriminatory (Algorithmic) Data Processing



Transparent (Algorithmic) Data Processing



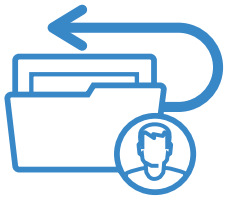
Human Intervenability in Algorithmic Data Processing

The onus to encrypt personal data at rest

Penalties for non-compliance up to - **€20M or 4% of global revenue** - *whichever is higher*

PEOPLE OWN THEIR DATA

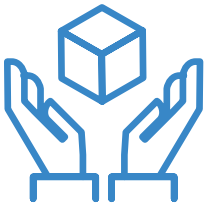
Enhanced Data Controller Responsibilities and Data Subject Rights



Data subject right to access their data

Data subject right to data erasure

The onus on organisations to maintain the data in an up-to-date state



Enhanced Data Controller Responsibilities and Data Subject Rights

The onus to delete data that is no longer needed beyond its original purpose

The onus to implement security and privacy by design in services, solutions and products

Consent must be gathered for an explicit purpose. Use outside this purpose is not allowed without a new consent being sought.

SAMPLE ASPECTS TO ASSESS GDPR TECHNOLOGICAL COMPLIANCE PROCESS

The following aspects reflect the degree of proper understanding and correctness of the compliance process. They aim to emphasise certain challenges and propose the need for careful GDPR handling.

Adopting privacy engineering and security engineering approaches	Adopting a technological approach towards accountability	Transition plan to utilise your current security solutions to privacy and data protection solution
Utilisation of state of the art privacy enhancing technologies for privacy and data protection by design	Transition plan for privacy & data protection by design state, to privacy & data protection by default	Privacy & data protection risk assessment technologies
Measuring the likelihood of de-identification given technological advances in industry and academia	Offering technologies for data subject access, rectification and erasure rights	Use consent templates that make explicit all your data processing and algorithmic decision making
Feedback loops to big data mining algorithms to adapt their inputs or logic	Utilisation of privacy-preserving big data mining for powerful analytics that are currently not possible due to data sensitivity	Employing privacy enhancing technologies to increase client trust, improve data disclosure and advance your data-based business

If one or more above aspects are **not being tackled**, then the GDPR compliance process requires further refinement.

TOPICS OF GDPR TECHNOLOGICAL COMPLIANCE TRAINING

The seminars cover these topics:

- GDPR Technological Requirements
- Mapping of GDPR Technological Requirements and Solutions
- Privacy by Design according to Ann Cavoukian and the (to-be-published) Opinion of the European Data Protection Supervisor
- Privacy Engineering as a Complete Solution to GDPR Technological Compliance
- OWASP Top 10 as a Fundamental Step to Privacy & Data Protection by Design
-
- Privacy by Design through Privacy Engineering
- Privacy and Data Protection Impact Assessment
- Pseudonymisation and Anonymisation
- Privacy Technologies for Data Subject rights
- Web Security as Core to Privacy & Data Protection by Design
- Third Party Components and Tracking Threats to Privacy
- Automatic Sensitive Data Identification
- Building privacy enhancing technologies
- Privacy-preserving Big Data Mining
- Transparent Big Data Mining Algorithms
- Accountable and Discrimination-aware Big Data Mining
- User-Feedback to Big Data Mining Algorithms
- Identity Management Solutions for Multiple GDPR Requirements
- GDPR Impact and Opportunities for Business

Each training session is followed by an assessment test. Participants will receive a certificate of attendance and an assessment-based certificate.

Dr. Rula Sayaf

PhD in Privacy, Security & Artificial Intelligence,
Computer Science, KULeuven

Dr. Rula Sayaf obtained her PhD in contextual privacy and data science from the faculty of Computer Science and Engineering at KULeuven, Belgium. She has developed automatic security and privacy solutions using machine learning at Microsoft Research. She is an expert in Privacy by Design, Privacy Engineering, Access Control and Accountability technologies.

The Sedicii team and Dr. Sayaf have collaborated in the area of Identity Security previously. As an accomplished professional Dr. Sayaf is well qualified to provide GDPR training. She will impart her expertise having founded her own specialist consultancy, Privacy Algebra, to bring knowledge about privacy, security, and A.I. from Academia to Industry in the context of GDPR compliance. Dr. Sayaf is a member of the working group on the Privacy by Design opinion with the EDPS in Belgium. In addition to her work with Sedicii, she has also co-founded the Privacy Training Centre in Belgium to offer privacy and security training to EU institutions, companies and the public.

She has published her work in both computer science and law focusing on privacy and data protection legislation. She is currently studying for a Masters Degree in Law in Data Protection and Intellectual Property, at KULeuven.

sedicii

Sedicii GDPR Technological Requirements & Awareness Training will bring participants a long way in the overall knowledge required under this evolution in EU law.

Further tailored training may be required for certain participants and we are happy to discuss any specific requirements on a group or one-to-one basis.

Sedicii Innovations Limited,
ArcLabs Research & Innovation Centre,
WIT West Campus, Waterford
X91 P20H, Ireland

Phone: +353 51 302191
+44 20 8144 8279
Email: training@sedicii.com
www.sedicii.com