TECHNICAL STANDARDS TO ACHIEVE DATA PROTECTION BY DESIGN IN DATA SPACES

AEPD – ENISA conference on data spaces

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Madrid, 2 October 2023
## Existing Technical Standards on Data Protection by Design and by Default

<table>
<thead>
<tr>
<th>European Standard</th>
<th>Technical standards</th>
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<tbody>
<tr>
<td>EN 17529:2022</td>
<td>Data protection and privacy by design and by default</td>
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<td>CEN/CLC/TR 17919:2023</td>
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<td>Data protection and privacy by design and by default - Technical Report on applicability to the video surveillance industry - State of the art (under development)</td>
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<td>Privacy management in products and services - Biometric access control products and services</td>
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<td>Systems and software engineering — System life cycle processes</td>
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<td>ISO/IEC TR 27550:2019</td>
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<td></td>
<td>Information technology — Security techniques — Privacy engineering for system life cycle processes</td>
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Consumer protection — Privacy by design for consumer goods and services — Part 1: High-level requirements
ISO/TR 31700-2:2023
Consumer protection — Privacy by design for consumer goods and services — Part 2: Use cases (online retailing, fitness company, smart locks)
What Possible use of Technical Standards for Data Spaces?

Data spaces: Infrastructure which facilitates access to data and thus the development of business models based on its exploration and exploitation (AEPD 2022)

<table>
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<tr>
<th>Governance/reg</th>
<th>technical</th>
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<tr>
<td>Determination of DPbD requirements</td>
<td>System requirements definition</td>
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<td>Record of processing activities</td>
<td>Architecture definition process</td>
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<td>Consumer communication requirements</td>
<td>Design definition process</td>
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<tr>
<td>Assessing risk capabilities of third parties</td>
<td>Secure multi-party computation: models &amp; properties ISO/IEC 4922-1:2023</td>
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<td>Preparing data breach response plans</td>
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<td>Designing &amp; implementing privacy controls</td>
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<td>Design interface to enable access of data subjects rights</td>
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Examples of requirements in technical standards useful for data spaces
Challenges – Need for New Data Space Standards on Data Protection By Design?

- Current DPbD standards focus on organisations, not the processing lifecycle across organisations
- Overview of processing in case of complex configurations of data spaces with multiple data holders, intermediaries and data users?
- For example COM Proposal for EHDS on ‘access to data’:
  “bring questions to data instead of moving data” / compute-to-data approach
  → not reflected in an existing data protection by design standard.
- Need for update of existing European & international standards?
- Need for a Technical Report specifying how EN 17529 applies to Data Spaces?
- Integration of data protection by design and by default in standards on Data Spaces?
- DIN SPEC 27070:2020-03 - Requirements and reference architecture of a security gateway for the exchange of industry data and services
- Common specifications?
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