Data Privacy Vocabulary (DPV)

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https://harshp.com/research

https://w3id.org/dpv
The Base / Core Model in DPV
Knowledge & Semantics

The Base / Core Model in DPV

Taxonomies for Core Concepts

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Knowledge & Semantics

The Base / Core Model in DPV

Taxonomies for Core Concepts

Alternate Models that suit YOUR use-cases
The Base / Core Model in DPV

Taxonomies for Core Concepts

DPV-GDPR: GDPR Extension for DPV
version 0.7
Draft Community Group Report 25 May 2022

Extend for Domains / Jurisdictions

Alternate Models that suit YOUR use-cases
Technical & Organisational Measures - How? Where?
Processing - How? Where?
Technical & Organisational Measures - How? Where?

(Legal) Entities - Who?

Processing - How? Where?
How To Use DPV?

Incorporating knowledge from a variety of sources:
- Laws in different jurisdictions
- ISO/IEC standards
- NIST, ENISA - cybersecurity frameworks
- Common ‘pain points’ e.g. PIA/DPIA & Data Transfers
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Expressable / Shareable / Agreeable Knowledge
DRY: Don’t Repeat Yourself - REUSE
DRY: DO Repeat Yourself - EXTEND

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Express legal requirements and constraints using the same concepts
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Annotate your imports / exports / servers / data stores / metadata with legally relevant concepts and models

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Verify what your compliance status is and what you need to do
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Express legal requirements and constraints using the same concepts
Verify what your compliance status is and what you need to do
Enforce good practice and provide guidelines specific to concepts used in your use-case

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**How To Use DPV?**

Expressable / Shareable / Agreeable Knowledge

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- Code
- Documents
- Registry
- Policies
- Script
- Tools
- Systems

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Express legal requirements and constraints using the same concepts

Verify what your compliance status is and what you need to do

Enforce good practice and provide guidelines specific to concepts used in your use-case

Identify the best alternatives e.g. security measures - based on technologies used

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Information ...
Information ...
Information ...

- Policies
- Privacy Policies — End-User
- Internal Organisational Policies
- Service/Agent Negotiation
- Banking
- eHealth
- Medicine
- Legal Compliance
- Documentation of Use-Case
- Input to Assessment Tools
- Dialogue
- Dashboard
- Permission Management
- Consent
- Access Control
- Transparency in Use & Sharing
- Apple Store Labels
- Internet Communications
- Dataset Publishing
- Government
- Universities
- Browsers
- Personal Devices
- Smartphones
- IoT
- Open Data

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Challenges to DPV

- Permissions, Prohibitions aren’t expressed
- Too much variation in Global concepts for uniformity e.g. ‘Sell’ in CA/USA vs EU
- Legality ≠ Privacy
- Learning curve and barriers to adoption
- Integration of standards e.g. ISO
- Technologies e.g. cookies, databases, algorithms
- Prove completeness and correctness in real-world use-cases
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The scope of DPV is in a progressive flux. It needs a diverse multi-disciplinary cohort of experts to finalise concepts.
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Presented by Harshvardhan J. Pandit for PEPR 2022
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Links
This presentation: https://harshp.com/presentations
DPV: https://w3id.org/dpv
DPVCG: https://www.w3.org/community/dpvcg/
Github: https://github.com/w3c/dpv/