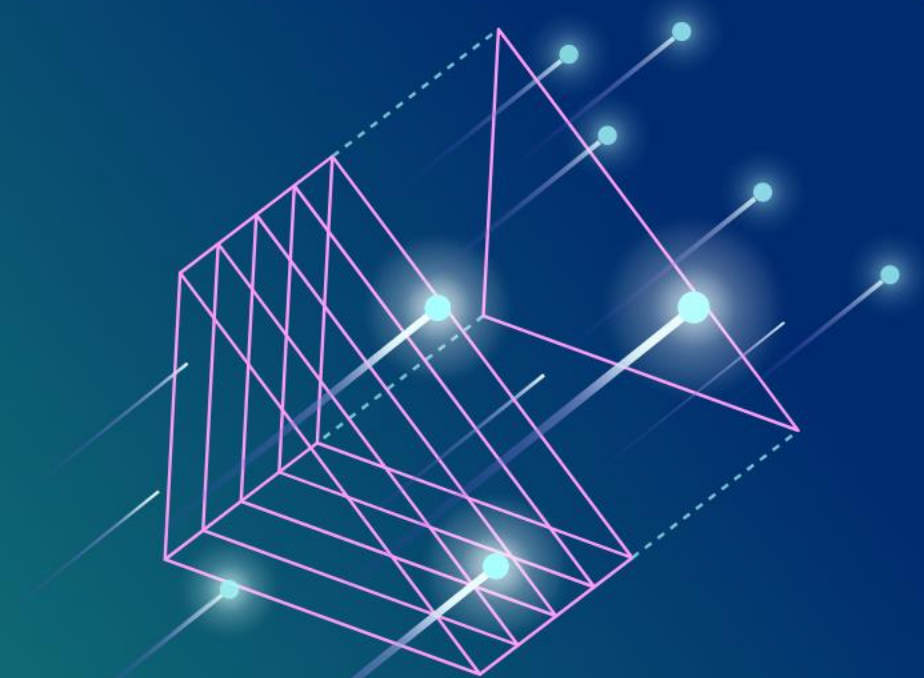


Data Spaces & Cybersecurity

Data Spaces and PETs

Freek Bomhof
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Motivation

Data spaces are at the core of the European Data Strategy
They will be federated across domains, countries and organizations

- Data spaces architectures do not include modern PETs

Societal concerns around all this data sharing
Data processing needs to comply with GDPR
Modern PETs are available now

- Modern PETs are not interoperable or standardized

Background

- Started as a TNO / CoE-DSC initiative early 2023
- TF Data protection & TF Data Spaces
- Proposed as BDVA whitepaper
- Session at Data Week 2023 (Lulea)
- Editorial team (18)
- Sneak preview EBDVF 2023 (Valencia)



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Different worlds (1): Data ownership

Data spaces people

- Practical concept
- Describes the party that holds the data and that can manage access to the data

PET people

- Meaningless concept
- Data cannot be owned like a physical asset



Different worlds (2): Trust

Data spaces people

- Trust is a good thing
- Establishing and maintaining trust is a key activity

PET people

- Trust is a bad thing
- When your technology is good, you don't need to revert to trust



Conclusions

- PETs contribute to enforcing policies, creating trust and sovereignty
- Interoperability in data sharing means interoperability in processes
- PETs are very specific; automated deployment is a challenge
- Standardization and formalization of data sharing processes is needed

Draft recommendations

Methodological & design

- Taxonomy
- Scenarios
- Templates of usage policies
- Definitions of roles

Organizational & policy

- Community on privacy patterns
- Certification

Technological & implementation

- PET marketplace
- PET compiler
- PET interoperability
- Definition of MVPs

Comments or questions:

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