DAta Silos Breaker

A Semantic Open Interoperability Solution to Break Down Data Silos

NGI webinar on Linked Data, 21.06.2021

DAPSI programme (2° call)
**SPARQL Event Processing Architecture**

SEPA [1] is an open-source project available on GitHub [2] providing an solution for **information interoperability** implementing FAIR principles and supporting **open vocabularies**.

SEPA implements a **publish-subscribe** mechanism over a generic SPARQL endpoint where clients' interactions are mediated by W3C SPARQL 1.1 Protocol (update/query) extended with a custom WebSocket protocol (subscribe/notify).
The DASI Breaker project aims to provide an enabling technology for developing data portability applications and services by extending SEPA with open standards and technologies:

- ETSI NGSI-LD
- W3C LDP (Linked Data Platform 1.0)
- SOLID
Implementation

- NGSI-LD
- SEPA SPARQL Event Processing Architecture
- Solid
- W3C Semantic Web
- LDP 1.0
- SOLID community server: https://solid.github.io/community-server/docs/

Tools:
- SEPA: https://github.com/arces-wot/SEPA
- Titanium JSON-LD 1.1 Processor & API: https://github.com/filip26/titanium-json-ld
- DASI Breaker: https://github.com/vaimee/dasi-breaker

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References

[12] Linked Data Platform 1.0. [Online]. https://www.w3.org/TR/ldp/

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https://github.com/vaimee/dasi-breaker