

2.1.5 Exchange View

[return to Stakeholder Views](#)

An exchange is responsible for the exchange of information between [immutable data objects](#). An exchange can be wholly contained within a domain, act as a [bridge](#) between domains, or even span across ecosystems or ecospheres. Obviously, the complexity of an exchange increases as the range of what is exchanged moves from just internally within a domain and crosses ecosystem or ecosphere boundaries.

An exchange is a process that exchanges one kind of immutable data object for another. [Bitcoin](#) would not be worth much if there were no way to exchange it for existing currencies such as euro, dollar, etc. Exchanges may be completely contained within a DIDO community network or act as the bridge between networks within the community; or be used to transfer immutable data objects between communities (i.e., Bitcoins to [Ethereum](#), lotas, or commodities such as gold, silver and grains).

An example of an exchange that could operate completely within a community might be for customer rewards programs that include customer loyalty reward programs.

Standards

Technical Standards

- [W3C: OWL 2 Web Ontology Language - Structural Specification and Functional-Style Syntax \(second Edition\)](#)
- [W3C: RDF 1.1 Concepts and Abstract Syntax \(RDF\)](#)
- [W3C: SPARQL 1.1 Overview \(SPARQL\)](#)
- [OMG: Ontology Definition Metamodel \(ODM\)](#)
- [W3C: RDF 1.1 Terse RDF Triple Language \(Turtle\)](#)

de facto Standards

- None at this time

Tools

- None at this time

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