UN Big Data Global Working Group
Standards for Trusted Data Collaboratives

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Data Sharing Business Model Patterns

Point to Point Data Transfers

Centralized Data Sharing

Distributed Data Sharing
Elements of Good Governance for Trusted Data Collaboratives

1. Clarity of Purpose/Mission

2. Clarity and representation of Stakeholder Interests

3. Established Authorities and delegated Decision Rights

4. Effective Policies – Internal Policies, Promises, Commitments, **Standards** and Regulations

5. Responsible and Responsive Actions and Punitive Measures for bad actions/actors

6. Generally Accepted Good Practices, Proven Architectural Patterns and Tools

7. Sustainability (Financial, Environmental, etc.)
A sample of relevant ISO/IEC Standards for Trusted Data Collaboratives


ISO/IEC 19944:2017 Information Technology -- Cloud Computing Cloud Services and Devices


ISO/IEC 27002:2013: Information technology -- Security techniques and code of practice for information security management


ISO/IEC 31000:2009 Risk Management Framework

ISO/IEC 31010:2009 Risk Assessment techniques

ISO/IEC 38500:2015 Information technology -- Governance of IT for the organization

ISO/IEC 38505-1:2017 Information technology -- Governance of IT -- Governance of data -- Part 1: Application of ISO/IEC 38500 to the governance of data...

...and a multitude of regional, national and sectoral standards (and corresponding regulations...) e.g. GDPR.
An emerging ISO/IEC Standard

Trusted Processing of Multi-sourced Data

Framework for Trusted Cloud Processing of Multi-Sourced Data

Elements of Trust
- Data Use Obligations and Data Use Controls
- Data Provenance
- Chain of Custody
- Security
- Immutable Proof of Compliance

1 Multi-sourced data: data that consists of separate data sets that have been generated by multiple, diverse sources and assembled by one or more cloud services from one or more CSPs, which are then subject to combined...