

*Differences and commonalities:
international vs. domestic, different
application domains*

- In what ways are the challenges of international exchanges different from, and the same as, domestic data exchanges? Where is international cooperation critical? To what extent can the same technical tools be useful across different application domains, and where do differences arise?

Research challenges

1. Expressing national/local policies in order to enable automated comparison/negotiation/merging across borders.
2. Mechanisms that enable policy enforcement or assurance of compliance (enabling accountability)
3. Identification and establishment of collaborative, context-specific, non-automated common trust models (“virtual organization”) in concrete scenarios in order to
 - Provide better understanding of challenges of international data exchange in general
 - Support current/future collaborative research efforts in Computer Security (malware, attack data, etc.)

while recognizing constraints on research (e.g. human subjects)

4. Develop models and mechanisms for **information** and **knowledge** exchange vs. **data** exchange
 - Facilitates certain legal and policy requirements (law enforcement model)
 - Necessitates research into ways of automatically extracting and reconstructing information from data in a traceable fashion.

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