Adversary Knowledge

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Motivated Intruder Test

Guidelines for Performing the Motivated Intruder Test

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QuintilesIMS™ PRIVACY ANALYTICS a QuintilesIMS company

Adversary Models

- Demonstration attacks vs malicious attacks
  - Criminal or illegal activity
  - Unethical behavior
- Cost, Effort, and Time
- Skills of Adversary
- Terms of Use
  - Can they / will they be enforced
  - Who can enforce them
  - Jurisdiction

Motivated Intruder

- She is reasonably competent to perform a re-identification attack.
- She has access to resources, such as the Internet, libraries, and all public documents.
- She would employ investigative techniques such as making enquiries of people who may have additional knowledge of the identity of a data subject or advertising to anyone with information to come forward.
- She does not have access to specialist equipment.
- She does not resort to criminality, such as burglary, to gain access to data that is kept securely
- Does not have any specialized knowledge
- As a practical matter, she will need to have quite good computer programming skills
- Have some domain knowledge, or the ability to gain it

Adversary Information

- Information that an adversary would know and can use
  - Public Sources
    - Clinical trial registries
    - Other regulators
    - Policy 0043
    - Social media (open or closed)
    - Population registries
    - Newspapers
  - Acquaintance information
- Data quality / reliability of the sources
- Knowability
- Information gain from a re-identification