S&I Data Provenance Initiative
Use Case Actors, Roles and Accountability for Data/Record Content

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10 August 2014

Actor Matrix

- The Actor matrix – *two slides ahead* – shows:

  – Actors and their roles vis-à-vis health data/record content.

  – Actors and their accountability for health record/data content, including: origination, retention, secure management, amendment, attestation, access/use, exchange, disclosure, transformation…

  – How Actions and related health data/record Entries by Actors are evidenced.

Recommendations

- DPROV User Stories include Actors/Roles not currently specified. The *next slide* shows how Actors should be scoped – in terms of:
  - Roles (in data/record content): Subject, Author, Attester, Informant, Source, Custodian, Manager, Transmitter, Receiver
  - Accountability for: authored and attested health data/record content; ensuring algorithms and rules applied to health data/record content
  - Evidence of same

S&I Data Provenance

Actors, Roles and Accountability

Actor →	Individual	Organization	Software
Acts (in role) as →	• Subject • Author • Attester • Informant	• Source • Custodian • Transmitter/receiver	• Source • Manager • Transmitter/ Receiver
	…of health data/record content		
Accountable for →	Authored and/or Attested data/record content	Software algorithms and rules applied to data/record content at points of: • origination/retention • amendment/update • attestation • access/view, exchange, disclosure • transformations to/from exchange artifacts…	
Evidenced as →	• Digital signature bound to content • Data/provenance PAIRS captured at point of data/record origination or amendment/update		