Augmenting Provenance Records with Trust

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– Use Cases:
  • Compliance with laws such as US Sarbanes Oxley Act and Health Insurance Portability and Accountability Act.
  • For data combined from different “flows”, provide a guarantee that the data has not been tampered with.

– Our Proposal:
  • Define the minimal set for a provenance description.
  • Generate the SHA512 Hash for a provenance record described using that minimal set.
  • Make these hashes available with the provenance records for verification, using an API, or published on a web page.
  • Provide a mechanism for provenance proof chains for modifications to an existing provenance record.