Dataset Origin & Versioning Pt. 2 Redux

FedRAMP

Determining Catalog and Profile Origin

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What Do We Have Now?

*As an OSCAL developer, I want to explicitly explain **what dataset** (NIST 800-53, ISO-27001 respectively) and **which version of that dataset** (respectively 4.0 and 5.1; ISO/IEC 27001:2013 and ISO/IEC 27001:2018) is the source of the catalog and resolved profile catalog without using human interpretation of semantic context, or externalized file and directory naming.*

- Metadata (Shared Header) Model
  - <u>version</u>
- Profile Model
  - <u>import</u> field with href attributes
- (Resolved Profile) Catalog Model
  - <u>link</u> field with rel "resolution-source"

Problem Statements

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1st Order Question

Within a given document, how do we determine the origin (provenance) and that origin's version when referenced in a particular document?

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2nd Order Question

in a *resolved profile catalog*, how do I know the provenance of the catalog and profile that resolved it?

Possible Solutions

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Add a [link rel to the OSCAL metadata model and relevant props](#) in back-matter resource to [define this information](#).

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2nd Order Question

In a *resolved profile catalog*, how do I know the provenance of the profile the new profile is based off of?

Enhance the profile resolution spec to pass more context data into resolved profiles.

References

- Banghart, Stephen. [OSCAL Document ID Linking and Referencing Model](#)