

Paper for Consideration by S-100 WG

Suggested corrections to S-100_ExchangeCatalogue metadata

Submitted by:	S-102 Project Team (David Brazier)
Executive Summary:	This document lists multiple attributes incorrectly located within the S-100 metadata schema.
Related Documents:	S-100 4.0.0 Part 4a (metadata), Appendix D
Related Projects:	S-102 Project Team

Introduction / Background

S-100 Part 4a, Appendix D outlines several categories of metadata required for information exchange. Metadata associated with the overall exchange catalogue, metadata about each dataset, and metadata for any support files. During the last S-102 project team meeting in Aalborg, *S100_ExchangeCatalogue* attributes '*replacedData*' and '*dataReplacement*' were identified as incorrectly located in the S-100 metadata schema. This paper proposes remapping both attributes to a better location within the S-100 metadata schema.

Analysis/Discussion

S-100 Ed 4.0.0, Part 4a, Appendix D introductory paragraph states, "For information exchange, there are several categories of metadata required: metadata about the overall exchange catalogue, metadata about each of the datasets contained in the catalogue, and metadata about the support files that make up the package."

The S-100 specification defines two dataset specific attributes ('*replacedData*' and '*dataReplacement*') which speak to the status of a dataset (i.e. initial version, replacement version, or cancelled dataset). Both attributes are currently defined as components of the *S100_ExchangeCatalogue* table, and contain a multiplicity of [0..1]. Storage of dataset specific metadata within the *S100_ExchangeCatalogue* table is not appropriate. This metadata is specific to a singular dataset and not the entire exchange catalogue. Relocating these attributes within the *S100_DatasetDiscoveryMetadata* table is more applicable as it ensures version/edition specific metadata information remains attached to the dataset. This is critically important once a dataset is detached from the exchange catalogue.

Conclusions

S100_DatasetDiscoveryMetadata is the most appropriate location for attributes '*replacedData*' and '*dataReplacement*'.

Recommendations

Relocate *S100_ExchangeCatalogue* attributes '*replacedData*' and '*dataReplacement*' under *S100_DatasetDiscoveryMetadata* to consolidate all dataset specific metadata attributes.

Justification and Impacts

- The main impact is that the existing S-1XX specifications will require modification to accommodate for this change to the S-100 metadata structure.
- The change is justified in that all metadata about a given dataset would be located in a singular location and remain attached once the dataset decouples from the exchange set.

Action Required of [S-100 WG/S-1XX PTs]

S-100 WG / S-1XX PT members are invited to consider this proposal and take action, if deemed needed.