

Metadata Registries and Big Data

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Expert Contribution

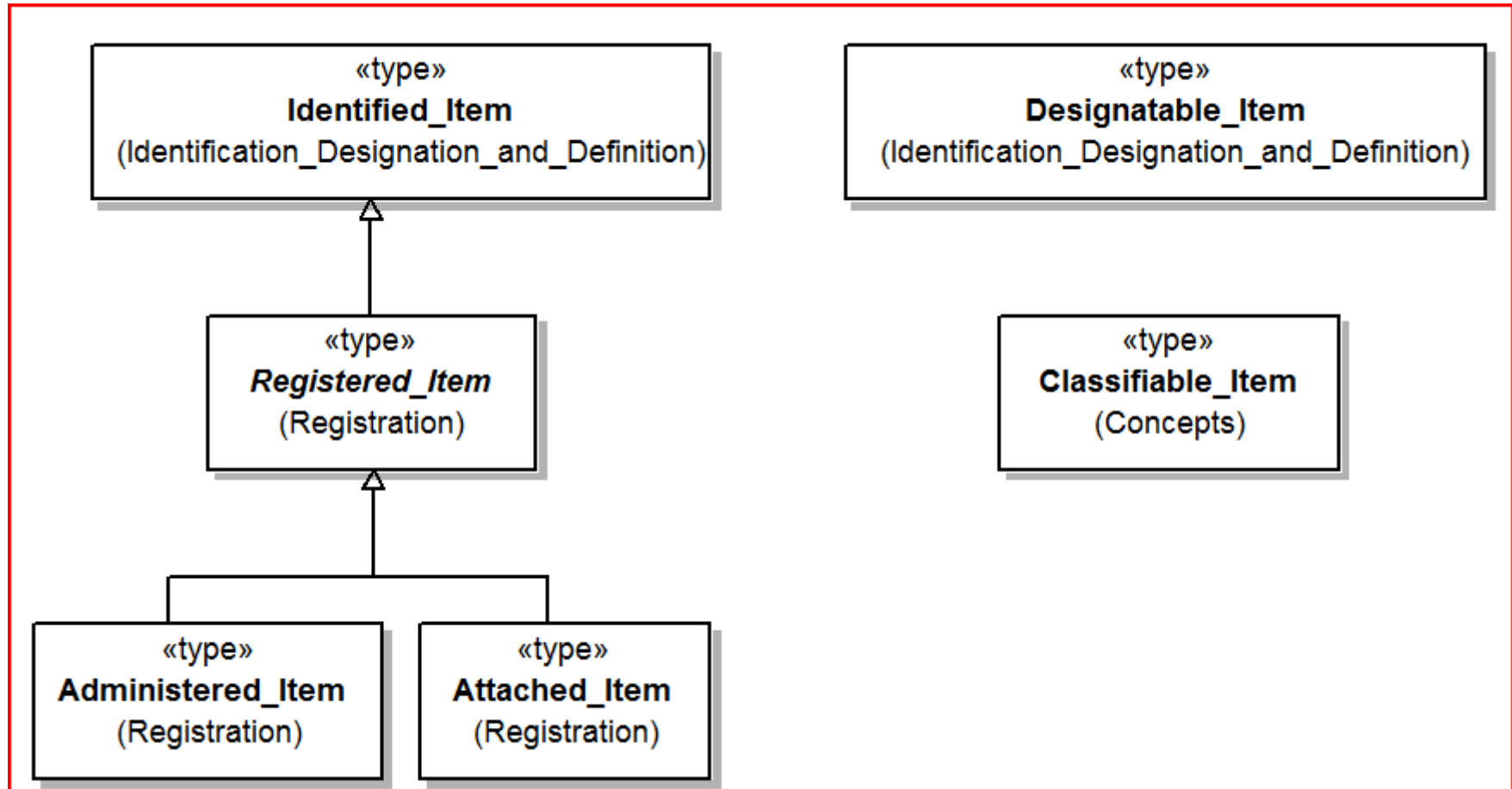
ISO/IEC 11179 & 19763 families

- ISO/IEC 11179 specifies a Metadata Registry and associated procedures, and specifies metadata required to describe specific types of metadata item, such as *data elements, data element concepts, conceptual domains, value domains* and *concept systems*;
- ISO/IEC 19763 specifies metamodels for registering various types of models and model mappings. It uses the registration procedures of ISO/IEC 11179.

Relevance to Big Data

- Understanding Big Data still requires an understanding of Data Elements, Data Element Concepts, Conceptual Domains and Value Domains, though these may be specified after the data has been captured instead of before
- The 11179/19763 registries could be extended to capture additional constructs, such as: *datasets*, and their associated metadata.

Types of registry items

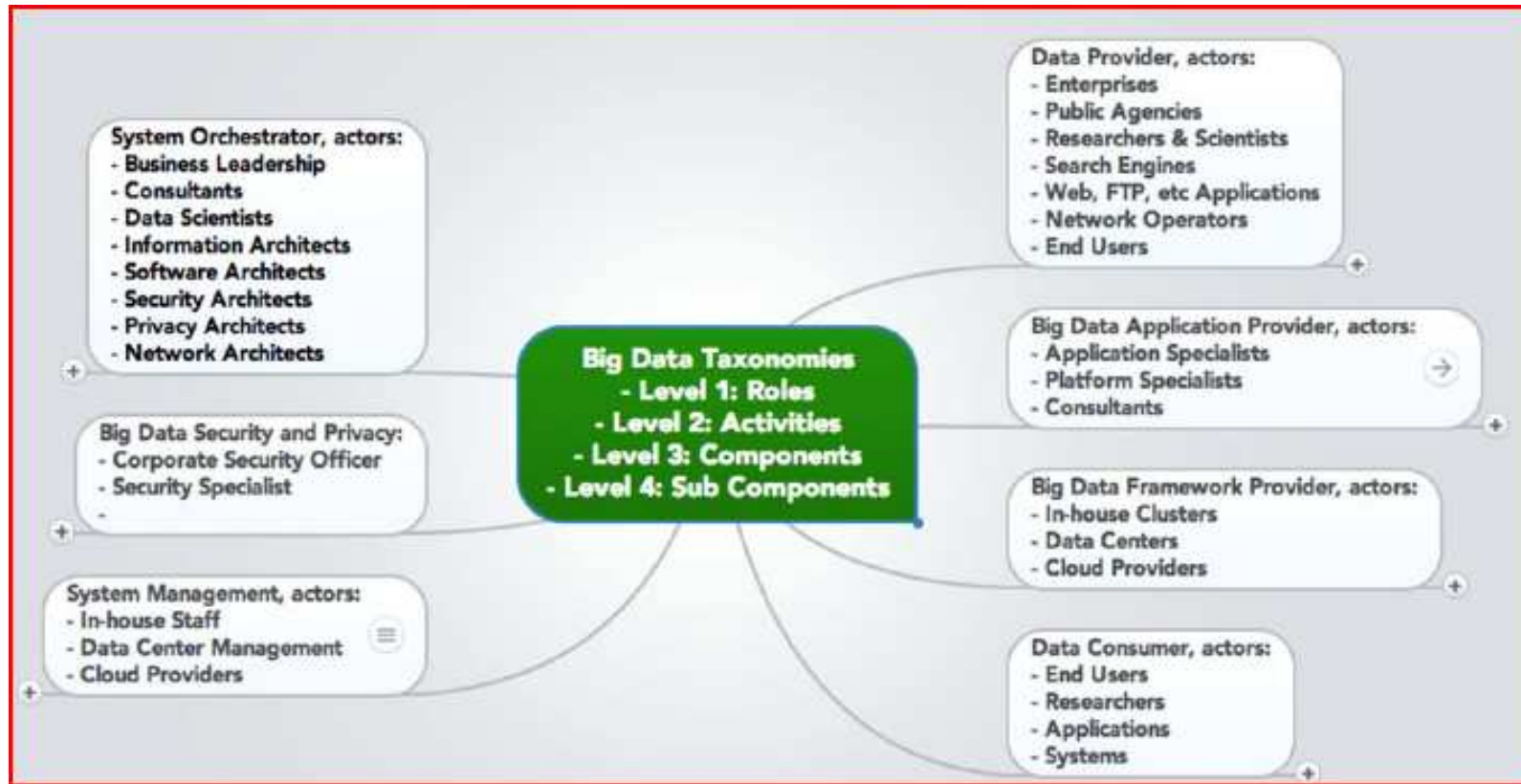


The above types can be applied to any registry item.

Administrative Information

- Can be applied to any type of registry item
- Examples include:
 - Creation date, Last change date, etc.
 - Administrative and Registration Statuses (related to metadata quality assessment)
 - Submitting Organization, Data Steward
 - Associated Reference Documents

Potential for Registry Extensions



Big Data Taxonomy could be used to drive registry extensions to describe Big Data