Mapping of the Music Ontology to the Media Value Chain Ontology and the PROV Ontology

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The ISO/IEC 21000-19 Media Value Chain Ontology (MVCO), conceived within the MPEG-21 standard, formalizes the representation of the Media Value Chain covering the Intellectual Property aspects of the creation workflow.

The Music Ontology provides main concepts and properties for describing music (i.e., artists, albums, tracks, but also performances, arrangements, etc.) on the Semantic Web. It includes the Music Creation Workflow:

http://purl.org/ontology/mo/

The Music Ontology is based on other models: FRBR, Event Ontology, FOAF, etc.

FRBR is a conceptual entity-relationship model that relates user tasks of retrieval and access in online library catalogues and bibliographic databases. The Music Ontology music workflow is based on a RDF version of FRBR.

Benefits of the mapping

- To improve interoperability between systems, specially when querying over different domains
- To track the intellectual property value chain
- To validate the provenance chain
- Use in many different application scenarios: to better study musical influences, to measure the impact of artists and their works, the success of derivative works, etc.

What's next?
Mapping to MusicBrainz NGS: Musicbrains, a database with half million of artists and a million of releases, is based on a different (but similar) schema...