Directed Qualified Pattern, Influence, Non-Influence Relations, Optional Attributes

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In PROV-DM, most terms are equipped with **optional attribute-value pairs** “representing additional information”.

In PROV-O, most properties are accompanied by the “directed qualified pattern”

**Except SpecializationOf, AlternateOf, and HadMember**

**Solution**

- Define the directed qualified pattern in a standalone fashion, independently of the notion of influence in PROV
- Make Influence follow the Directed Qualified Pattern.
- Make SpecializationOf, AlternateOf, HadMember extensible. This means,
  - optional identifiers and attributes in PROV-DM,
  - follow the Directed Qualified Pattern in PROV-O.
- SpecializationOf, AlternateOf, HadMember are not an influence.