



KTH Production Engineering



ISO 13399 Walkthrough

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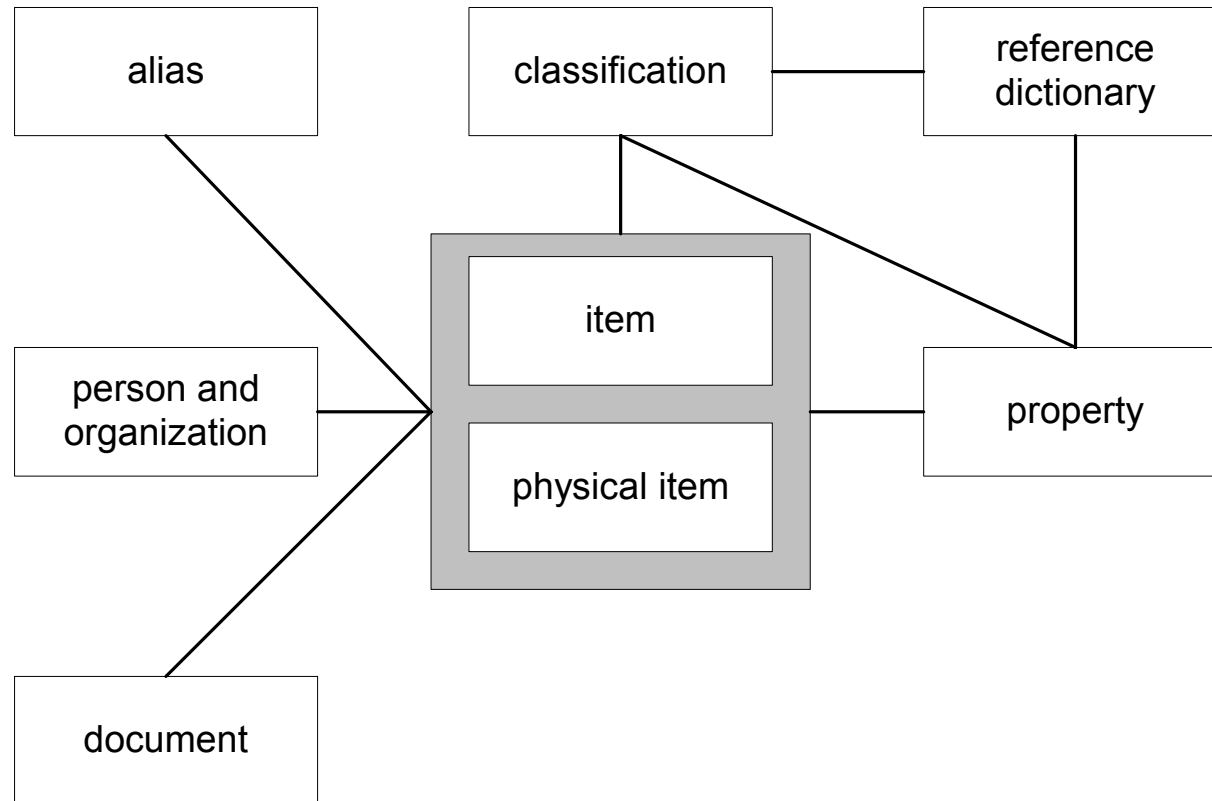
Poitiers 2003-10-28

Introduction

- ARM, AIM
- General model
 - Coupled with dictionary
- Dictionary
 - Classes
 - Categorized properties
- Hybrid approach



Overview of model



General model

- Must be general due to industry requirements
- Based on AP214
- Key aspects:
 - Classification
 - Properties

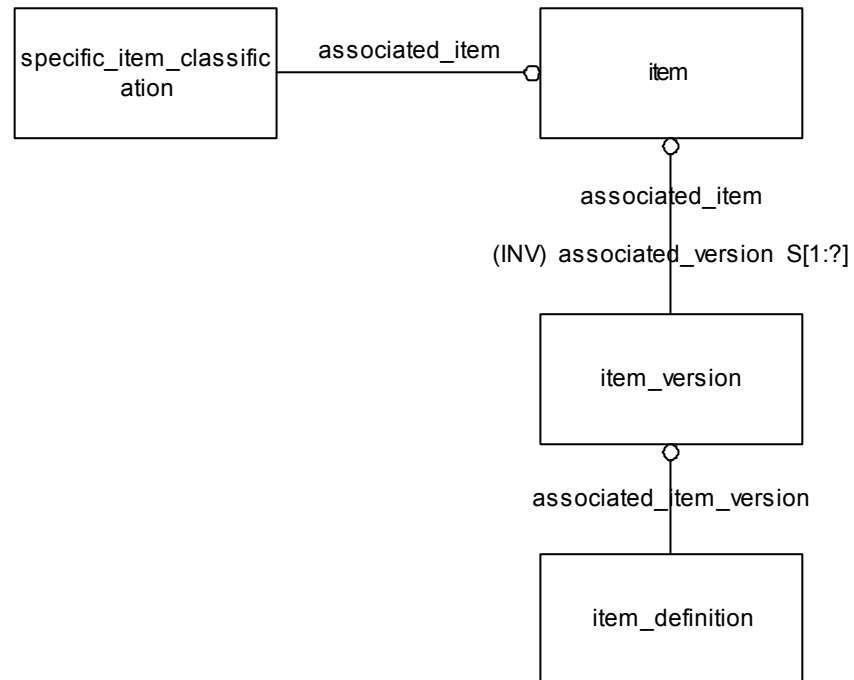


ARM - AIM

- There is an AIM
 - Please review!
 - A couple of known issues.
 - material_designation
 - classification_association_relationship
- Most of the AIM is based on mappings from AP214



Item



Item

specific_item_classification

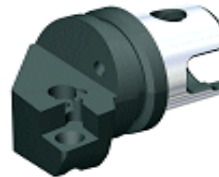
Cutting Tool



Cutting Item



Tool Item



Adaptive Item



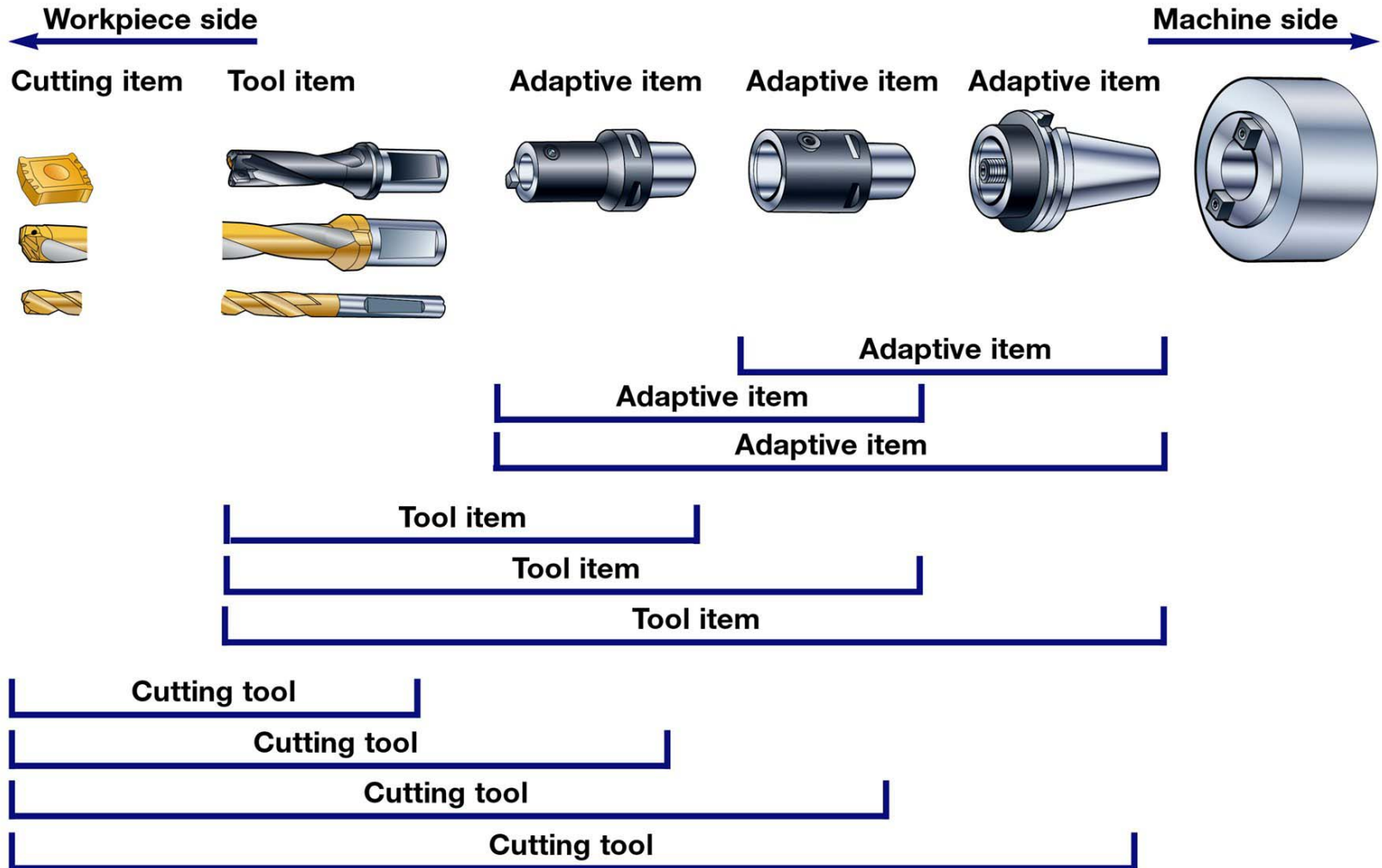
Assembly Item



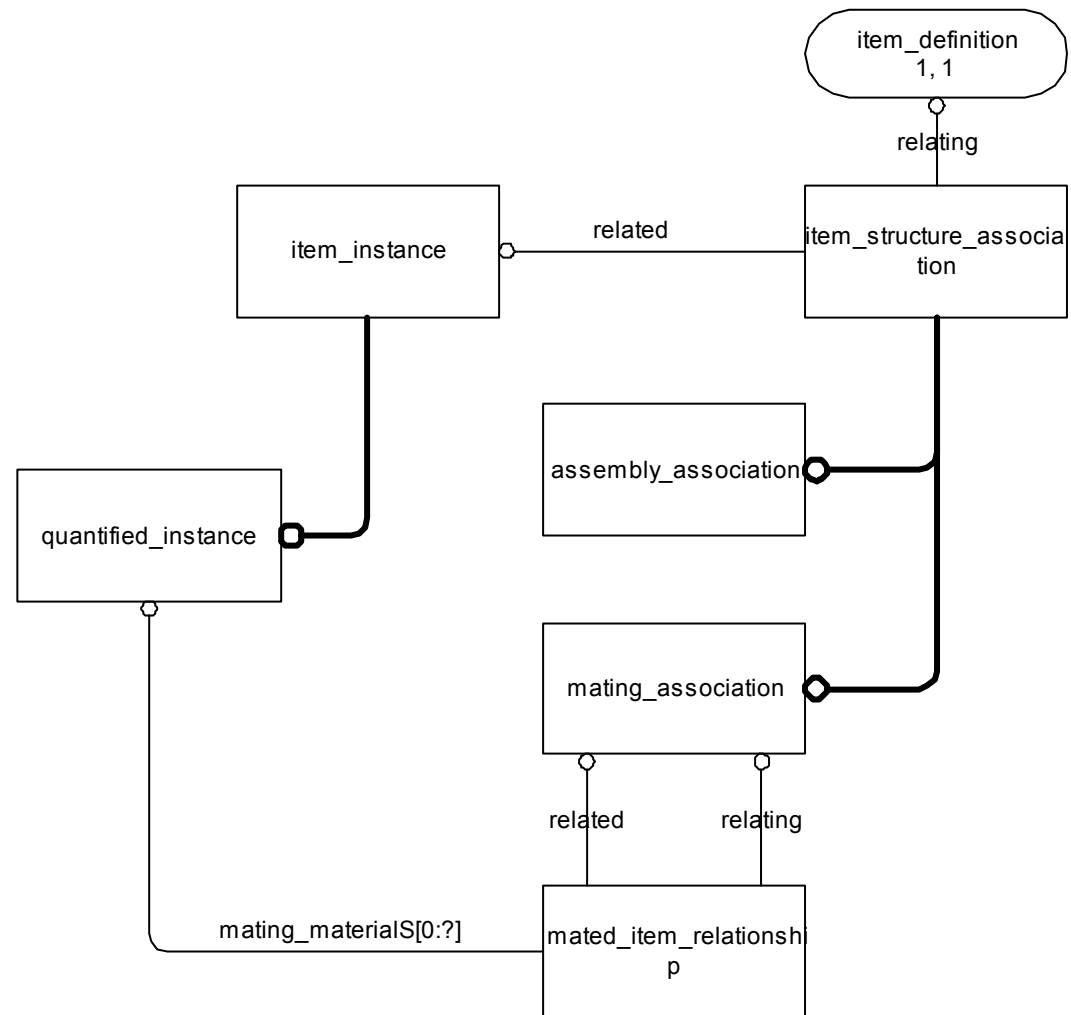
Accessory Item



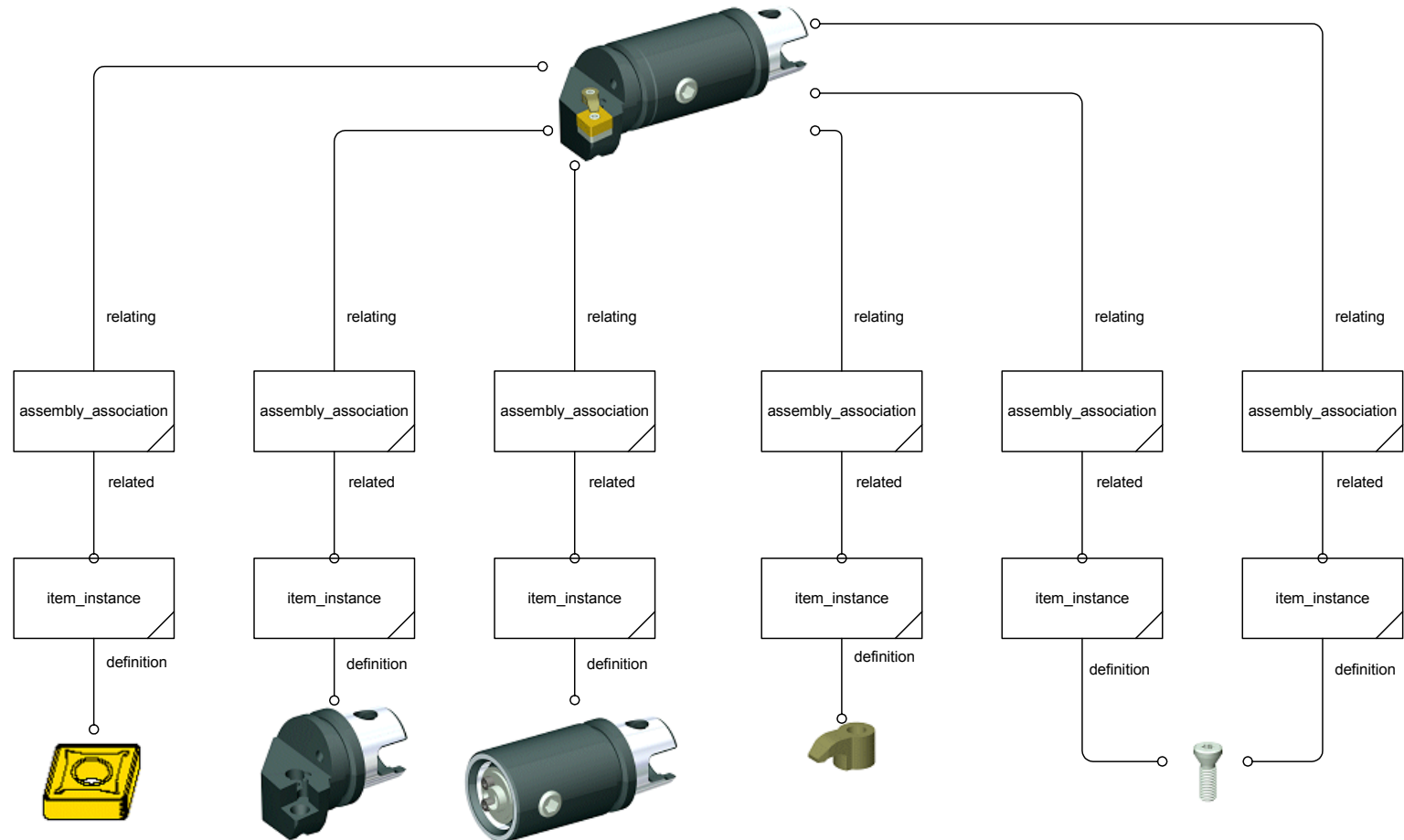
Categories of items



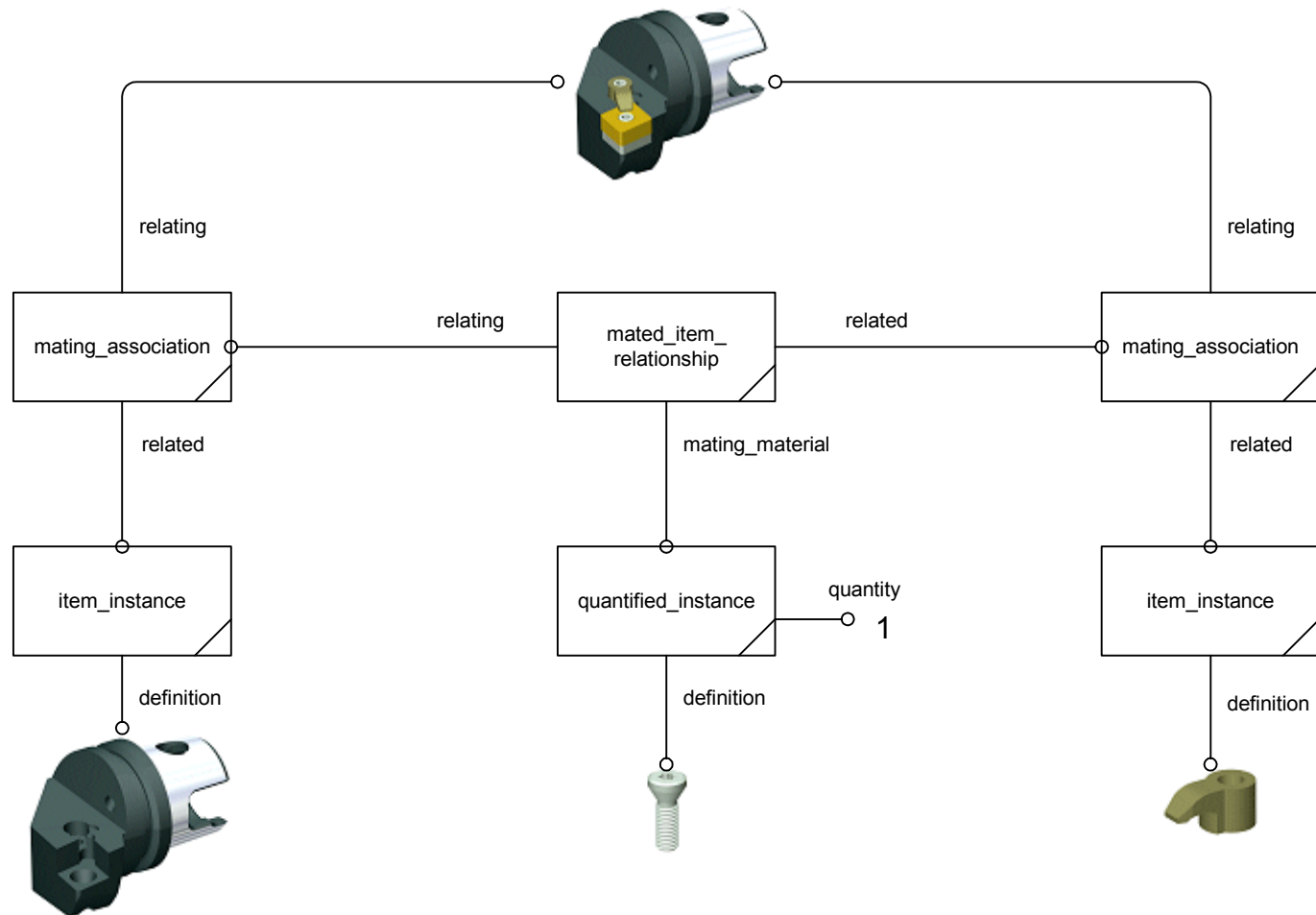
Structure



Assembly structure



Mating structure

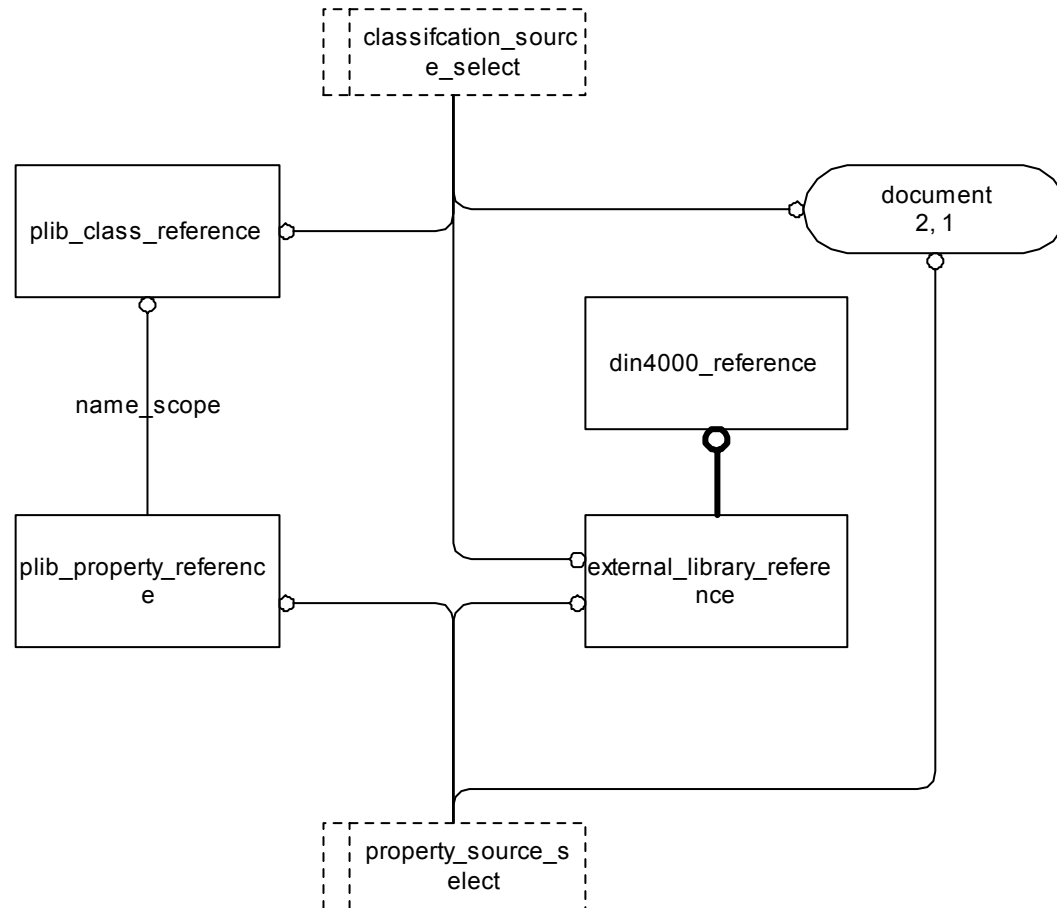


Coupled with dictionary

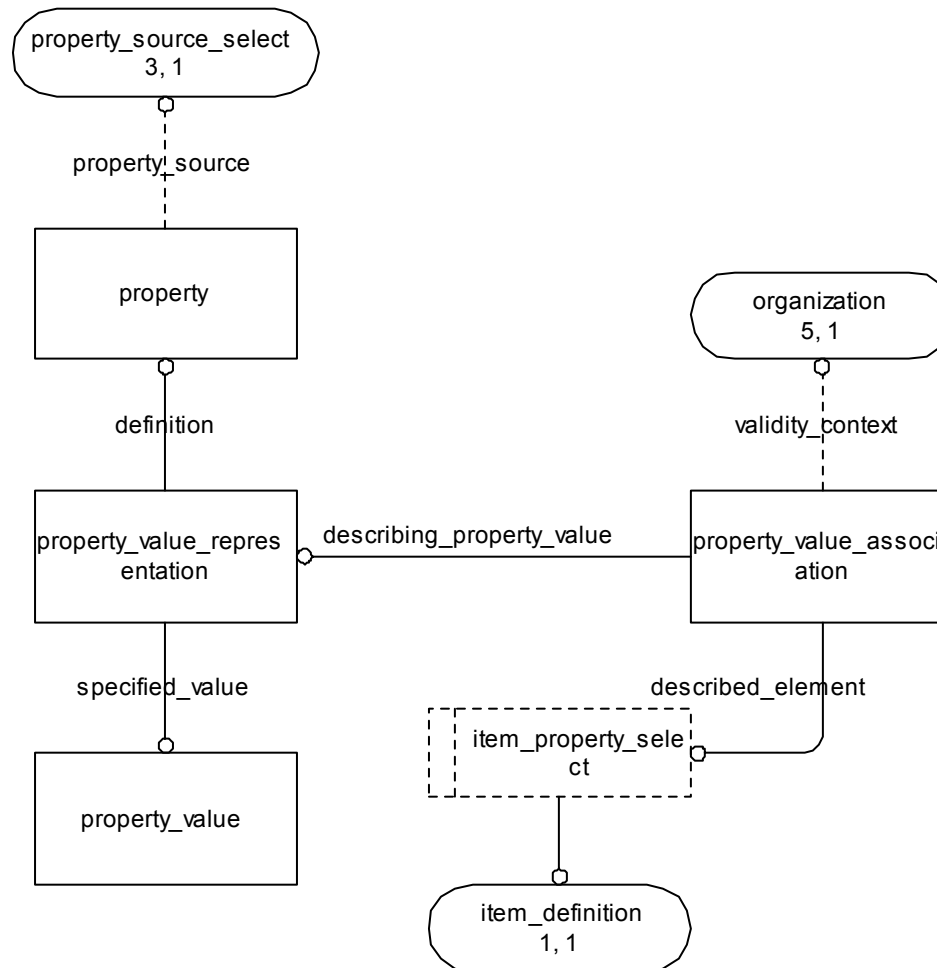
- Terminology and definitions can be kept separate from the information model



Coupled with dictionary

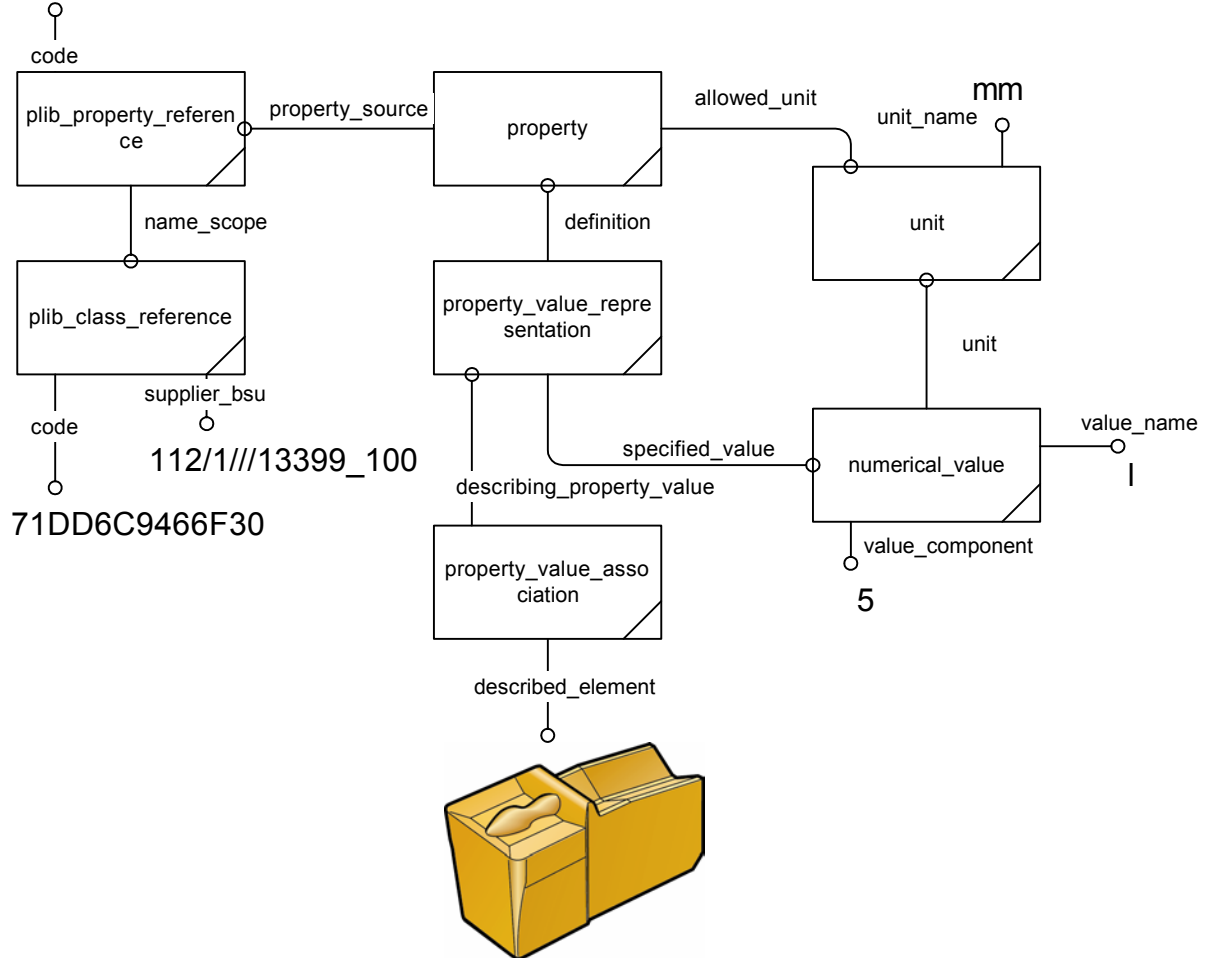


Properties

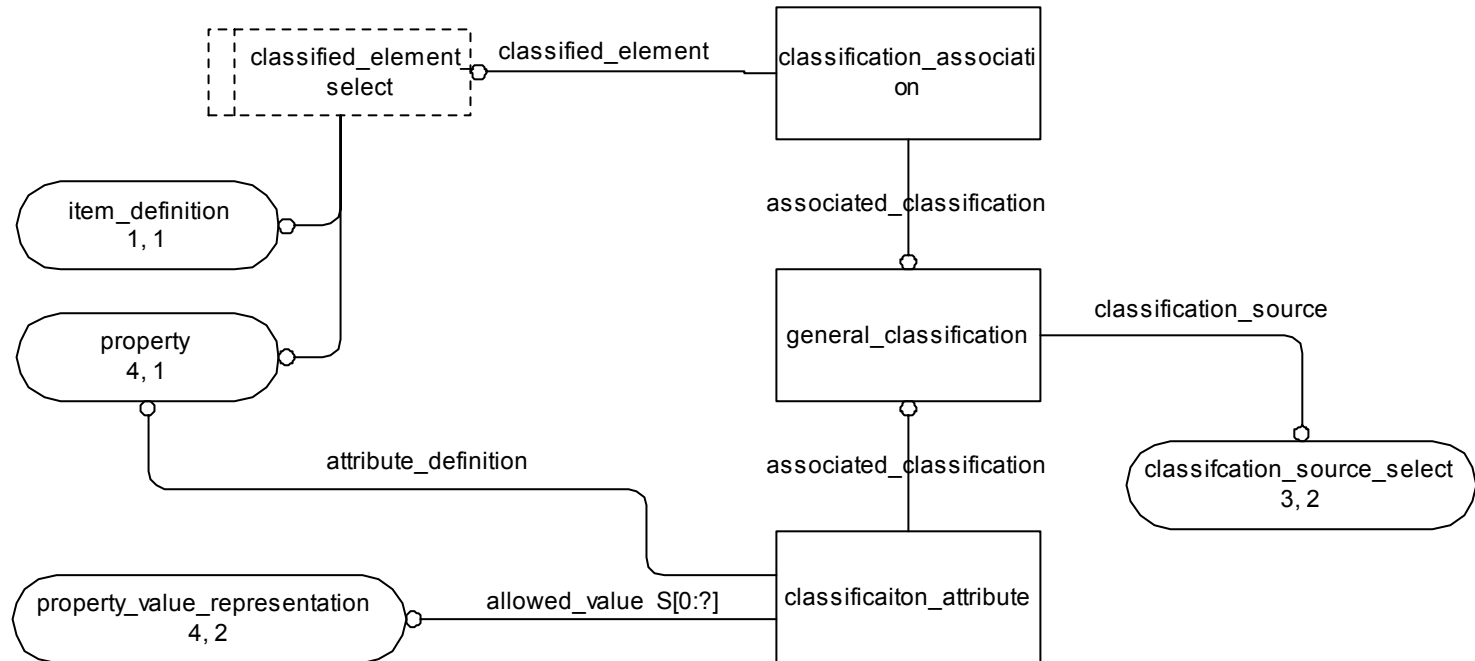


Properties

71DD6C95DA49B

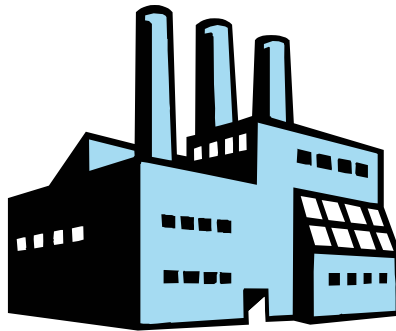


Classification

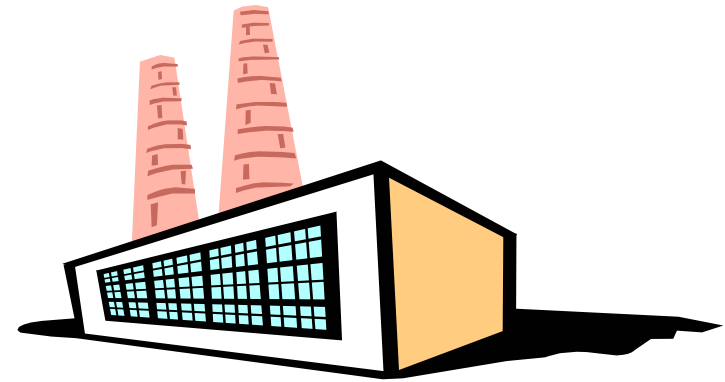


Different id in different contexts

Factory A



Factory B

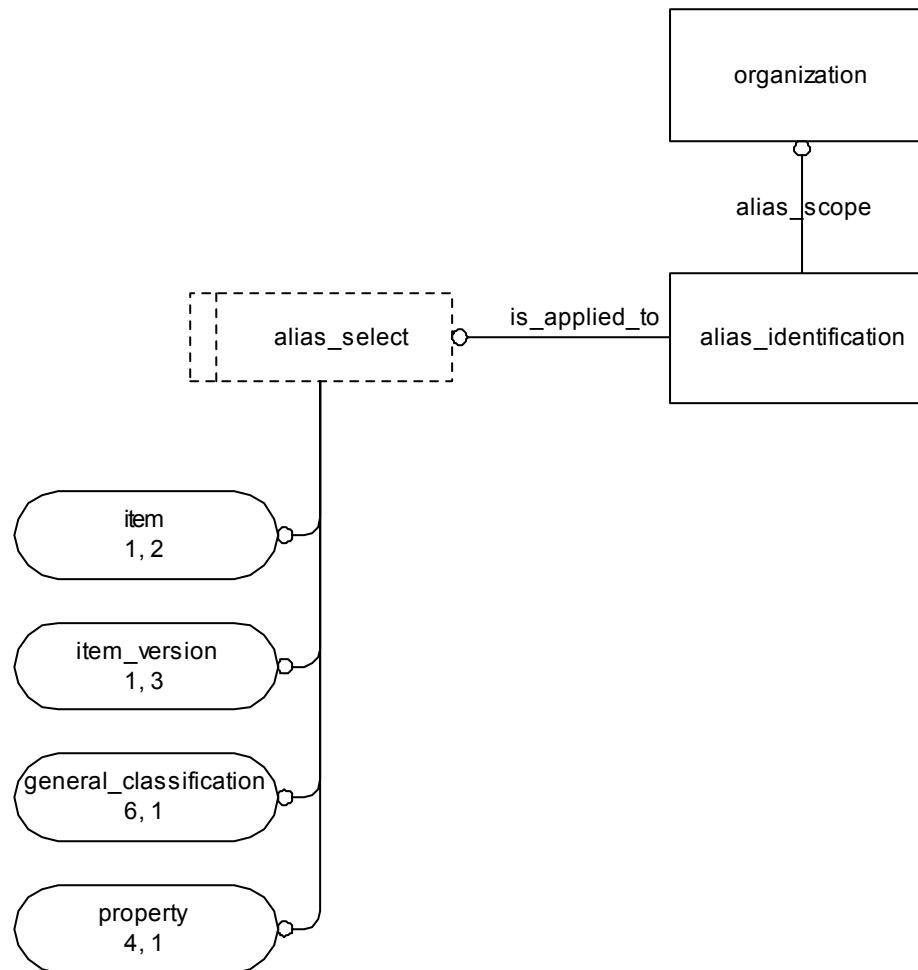


ABC123

XYZ789



Alias

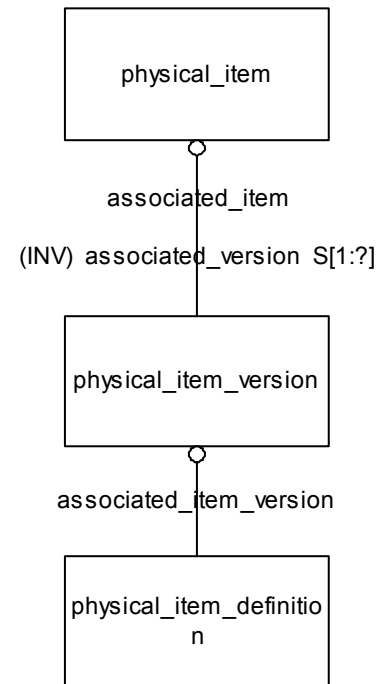


Use of cutting tool data in the real world

- The properties of tools are measured
- The same property will have different values for each and every tool



Physical items

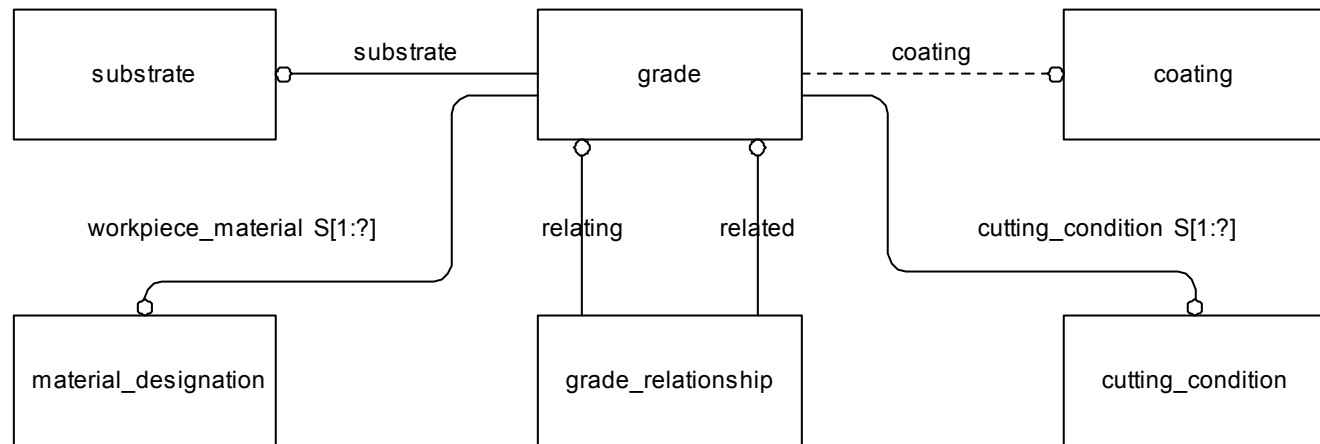


And more...

- Ownership
- Effectivity
- Document



Grade



Mapping

- grade, substrate and coating map to product_definition
- The relationships map to product_definition_relationship
- cutting_condition map to representation



Questions?

- Questions
- Discussion

