

Describing Toolpaths in an AP-238 CC1 file

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- **This walkthrough describes the AP-238 entities required to define a toolpath**
 - It shows what values are
 - » Required by the AP-238 standard (underlined in red)
 - » Suggested by the OMAC subset
- **Other walkthrough's describe.**
 - How to represent other APT information in an AP-238 CC1 file
 - How to conform to the ISO standard

- **The boxes represent entities**
 - The text attributes of the entity are described in the box
 - If a value is required by the ISO standard it is underlined and shown in red
- **The arrows represent attributes that are implemented as addresses in the Part 21 file**
 - The direction is important
 - The label on the arrow is the name of the EXPRESS attribute
- **Not all the entities are described**
 - If an entity is not described on a page it will not have a box
 - If an entity is described on another page then it will be shown in bold case
 - If an entity is not described here then it is shown in italics and you must read the AP-238 CC1 OMAC subset reference for more details.

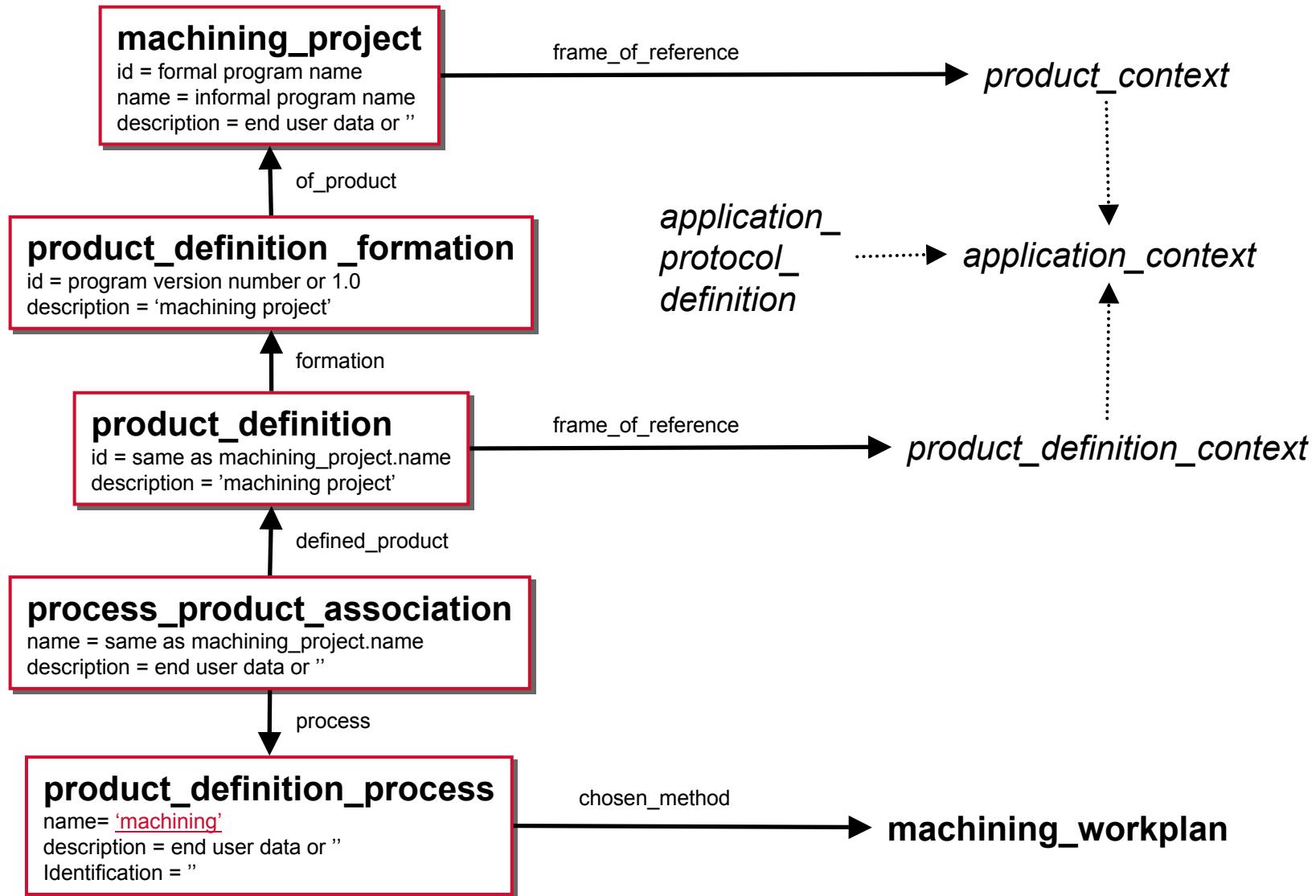
- **Per file**
 - One Project
 - One Workplan
- **Per Tool change**
 - One Workingstep
 - One Freeform_milling operation
- **Per Feed, Speed or Coolant change**
 - One Machining_toolpath



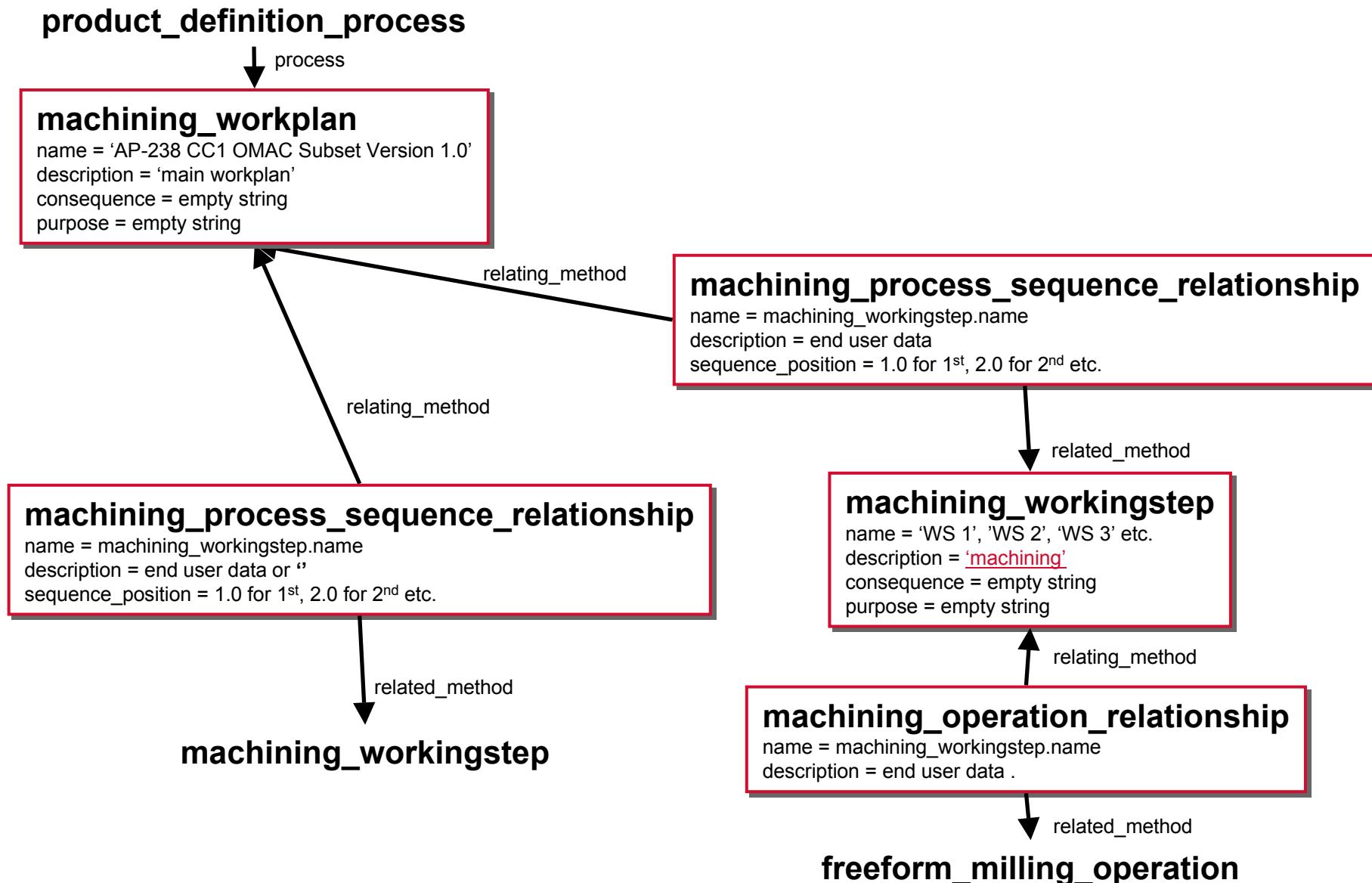
*LOADTL
SPINDL*

*COOLNT
FEDRAT
SPINDL
GOTO*

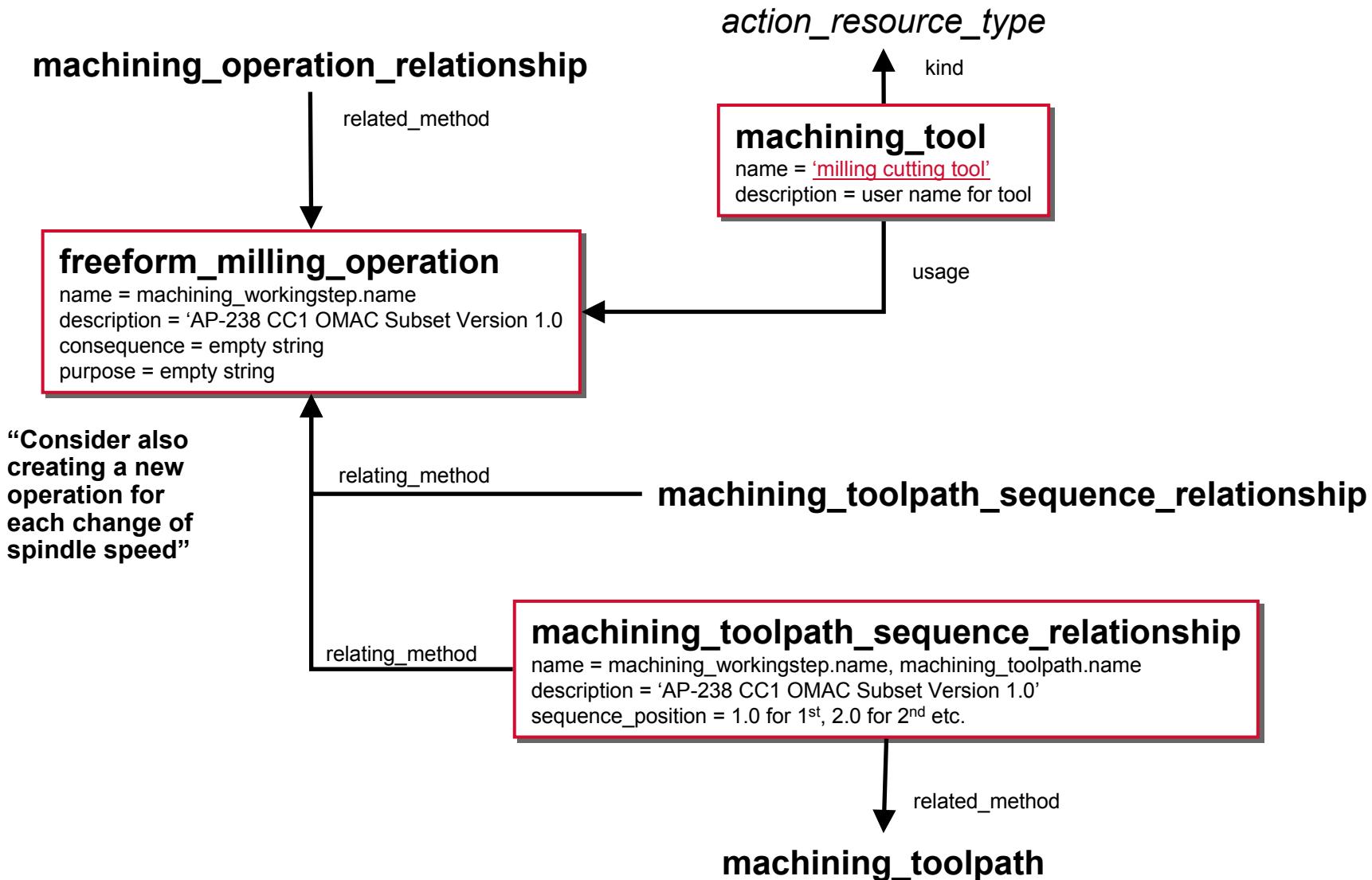
The Project – name and version data

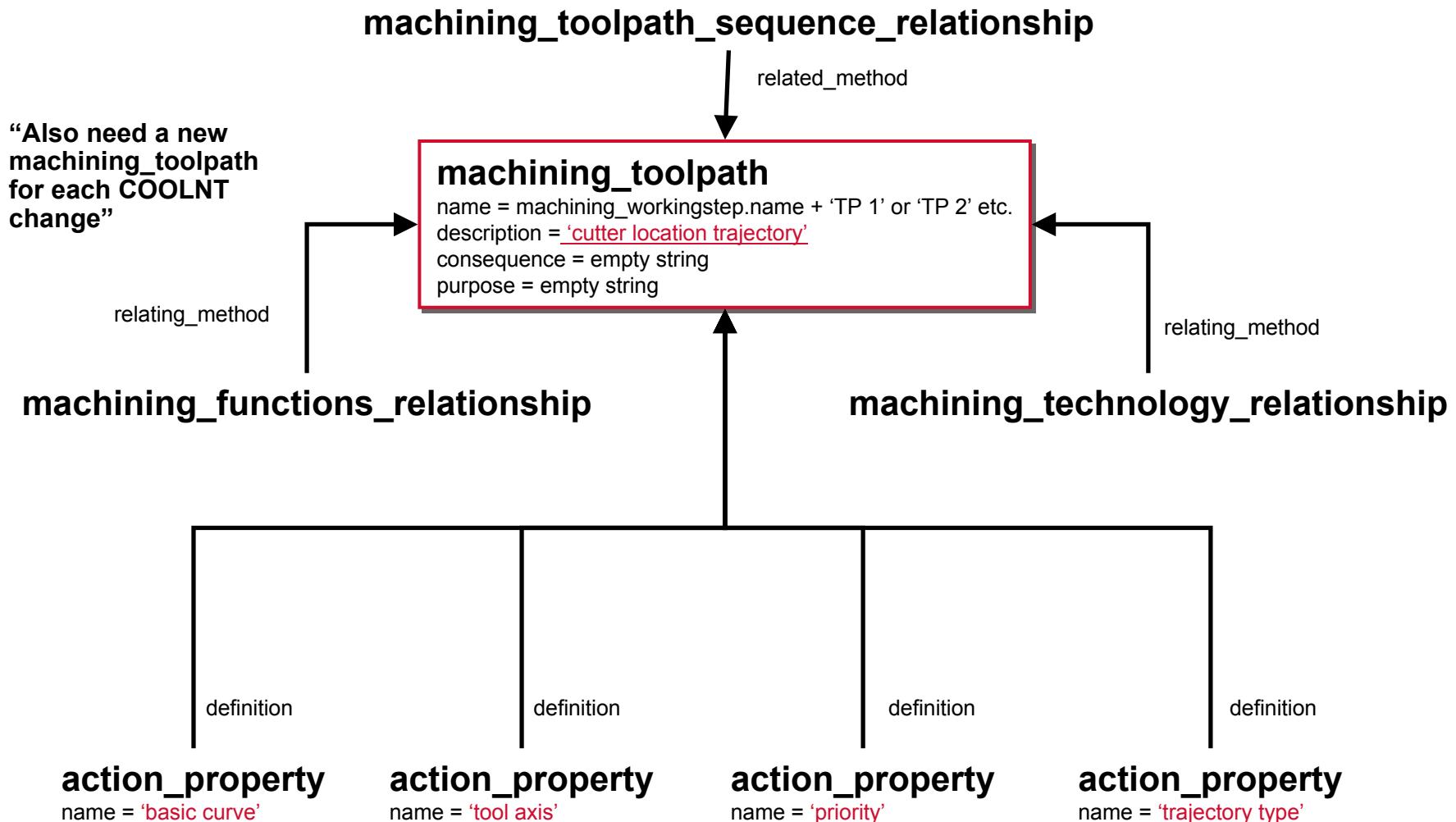


The Workplan – one per file

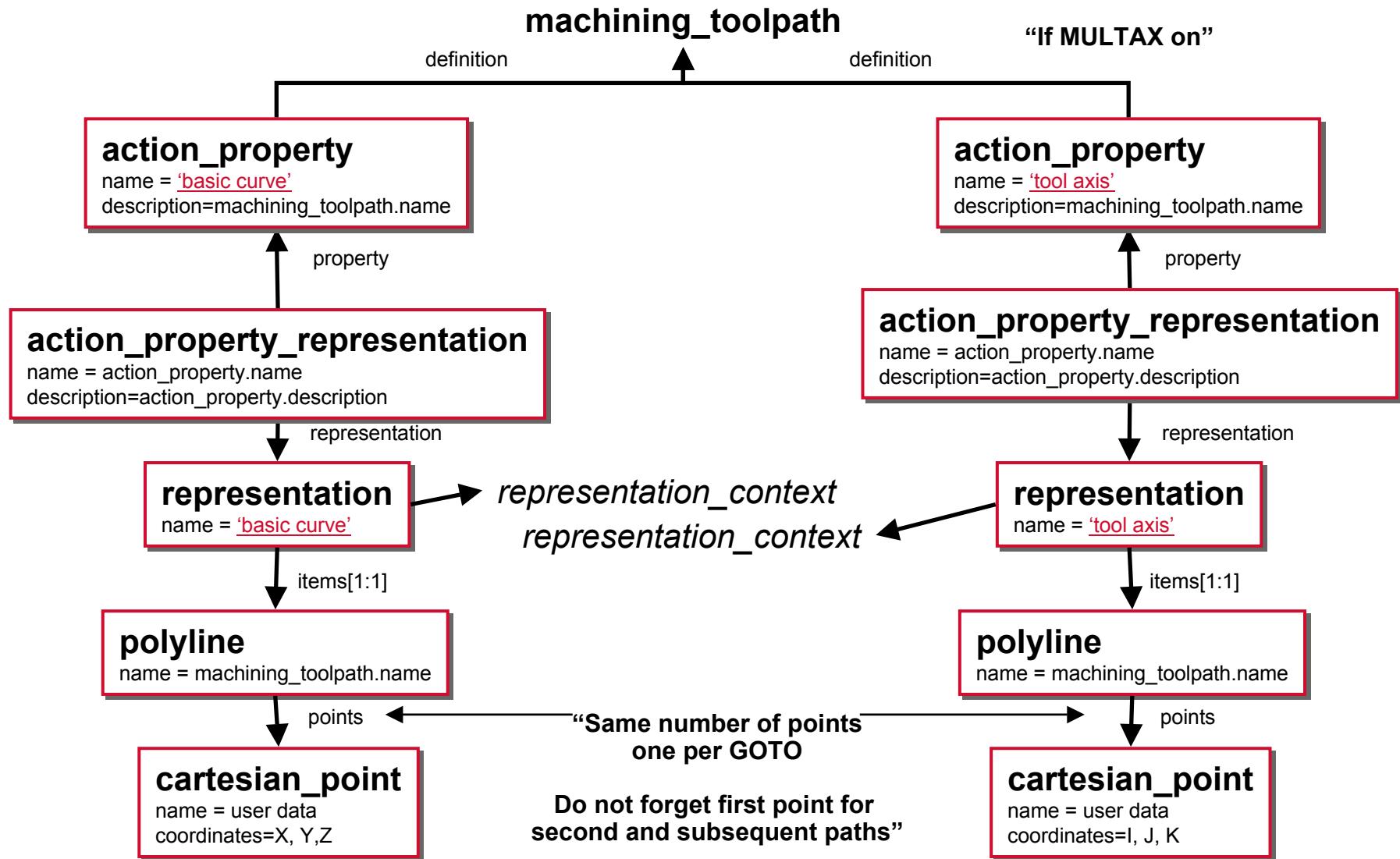


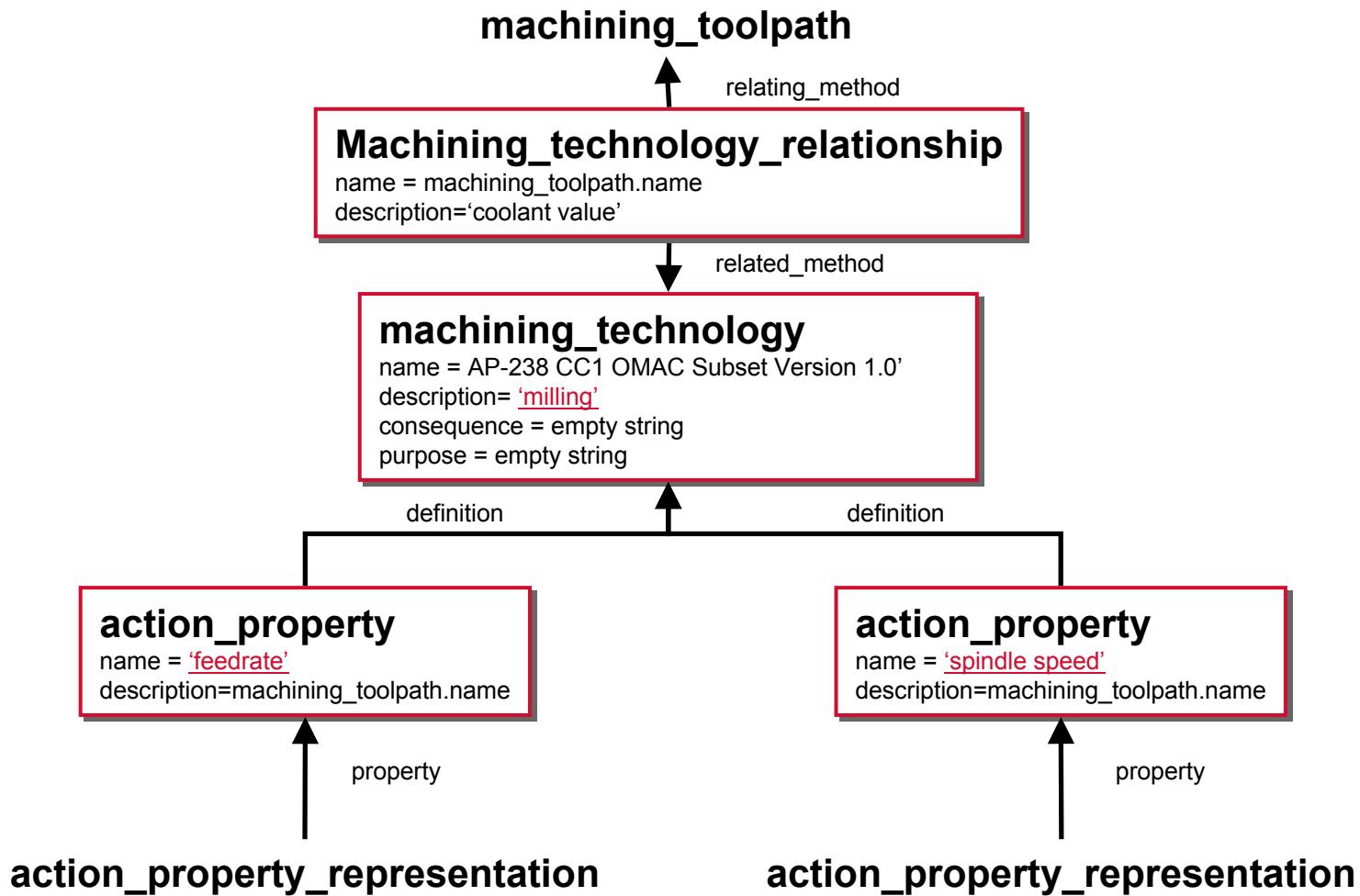
Freeform_milling – one per LOADTL

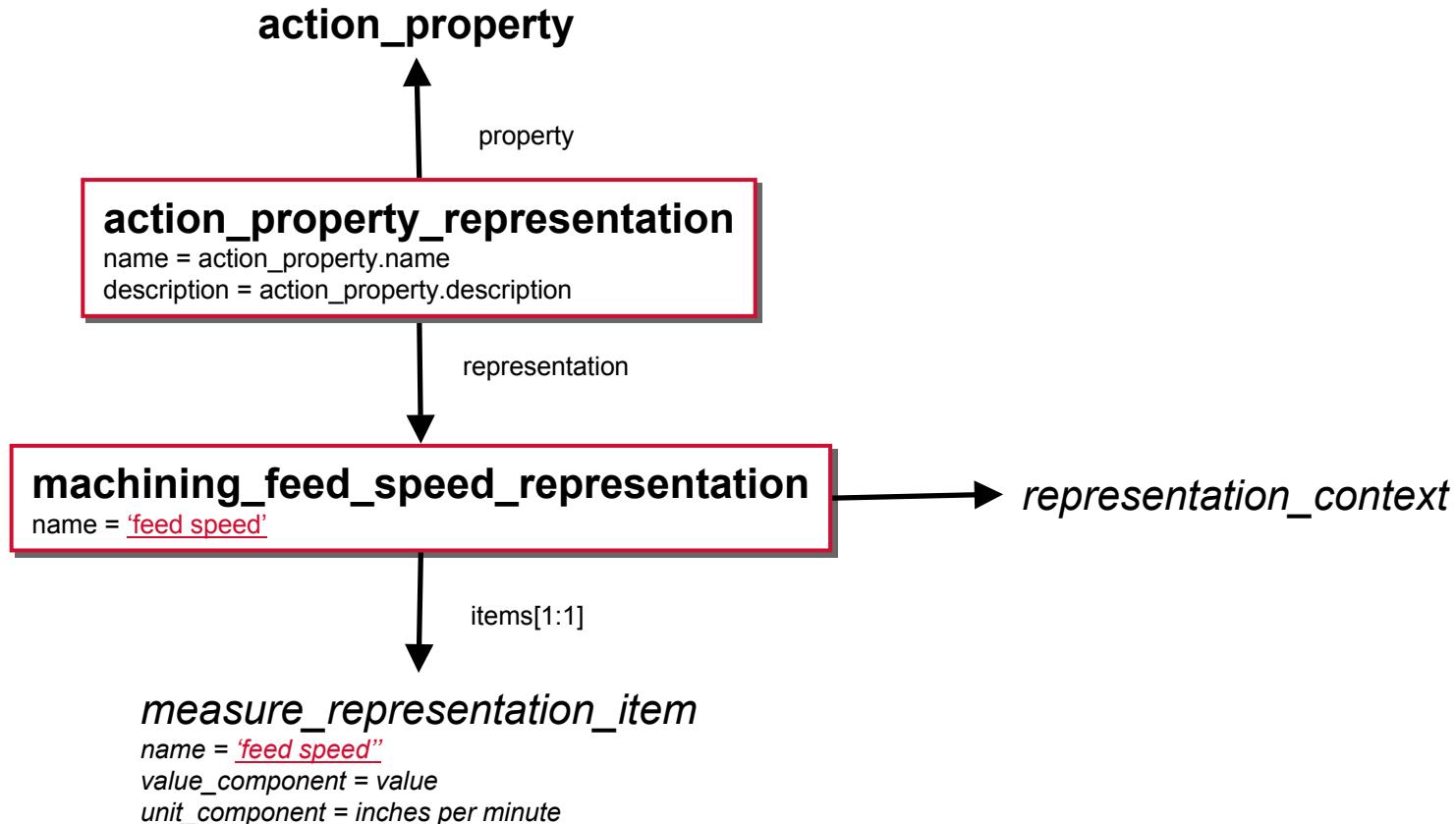




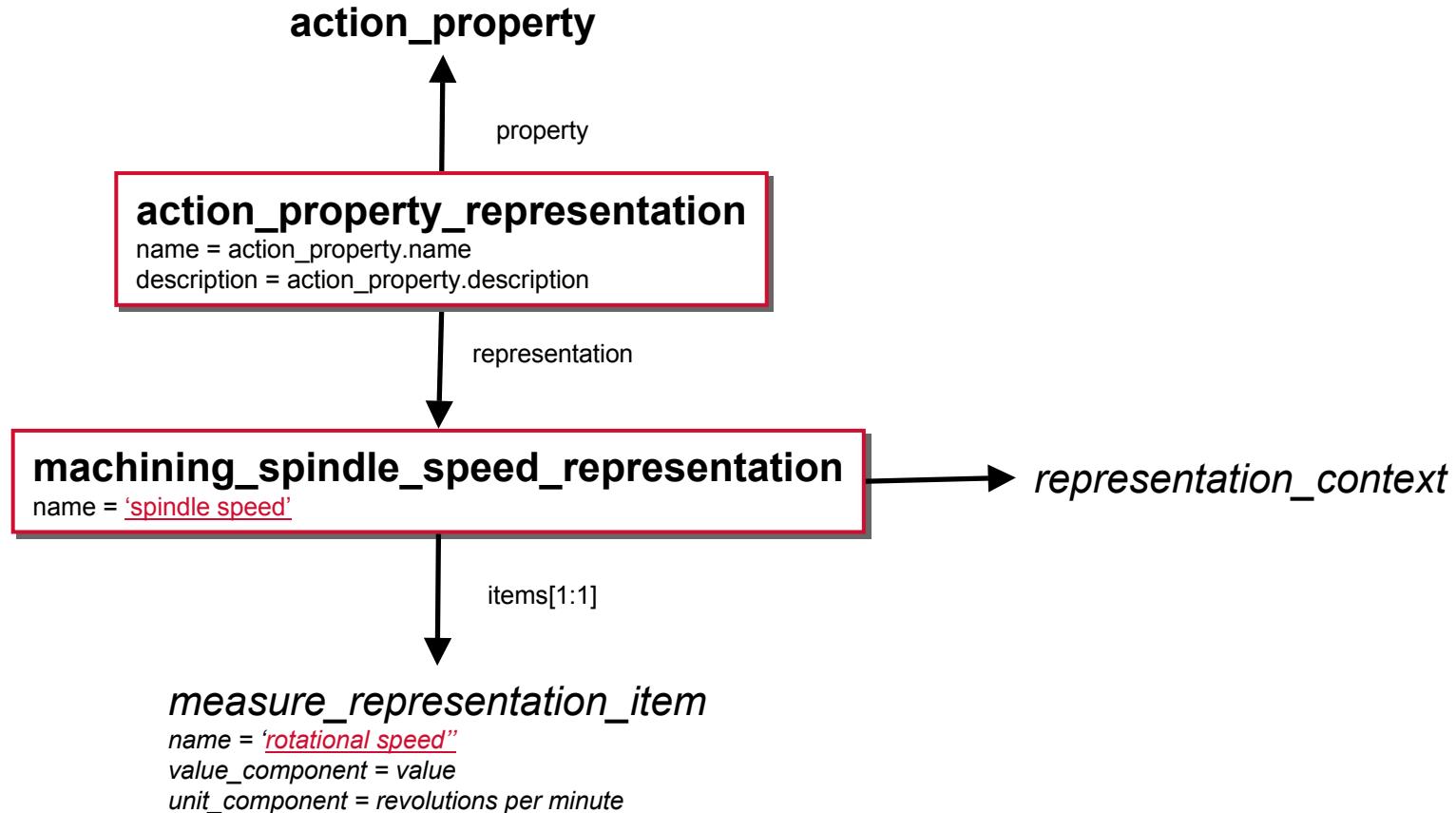
Basic curve and tool axis representations

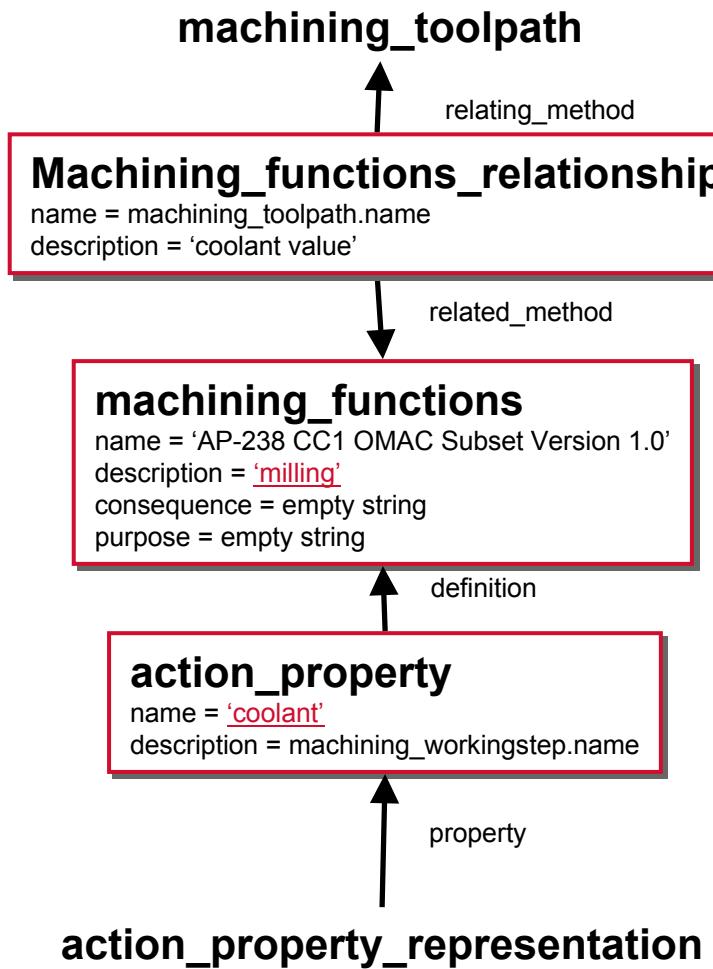


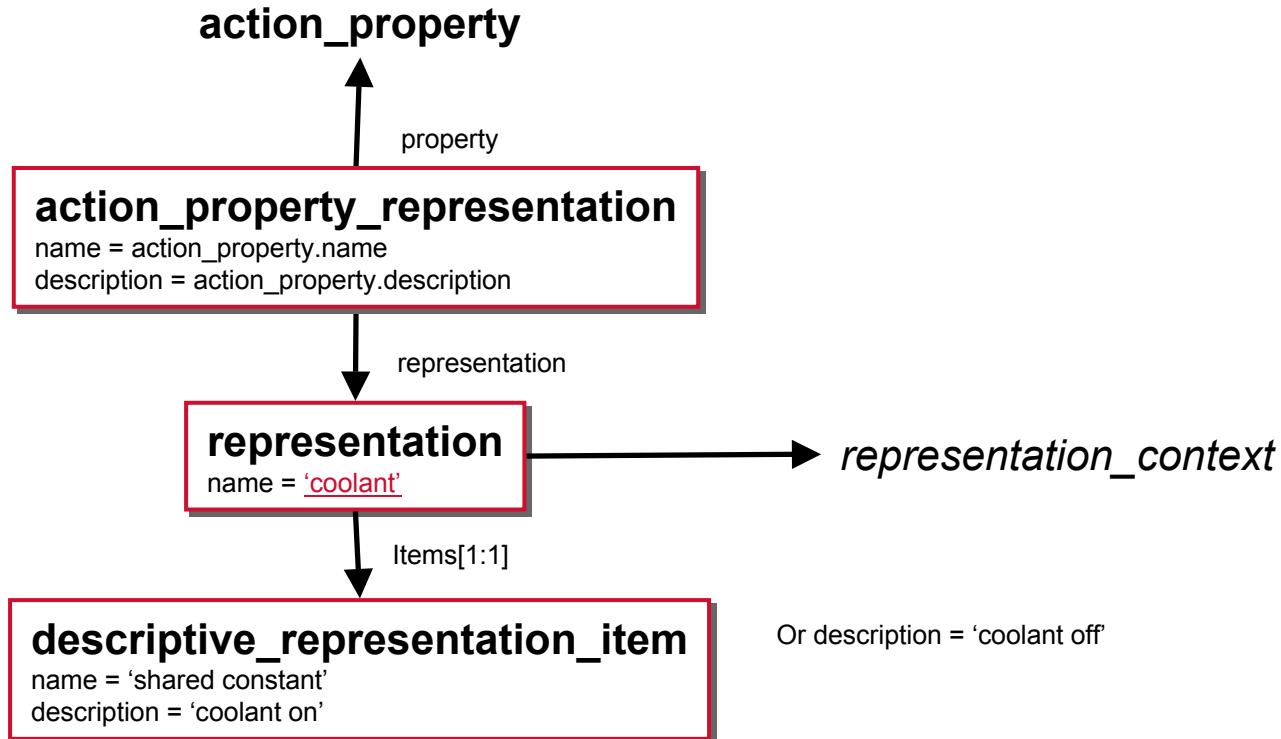




Spindle speed representation







Toolpath constant representations

