

XML DTD For Ontology Representation in OntoBuilder

XML Ontologies are validated against a DTD or an XML Schema. In this appendix we present the DTD version against which those XML files are validated. Although we agree that XML Schemas provide a better representation and validation features compared with DTD, they tend to be larger and more complex than their DTD counterparts. For this reason we chose to present the code version of the DTD.

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT ontology (classes, terms)>
<!ATTLIST ontology
  name CDATA #REQUIRED
  title CDATA #REQUIRED
  site CDATA #IMPLIED
>
<!ELEMENT classes (class*)>
<!ELEMENT terms (term*)>
<!ELEMENT class (domain, attributes, axioms, subclasses)>
<!ATTLIST class
  name CDATA #REQUIRED
>
<!ELEMENT attributes (attribute*)>
<!ELEMENT axioms (axiom*)>
<!ELEMENT subclasses (class*)>
<!ELEMENT domain (entry | term)*>
<!ATTLIST domain
  name CDATA #IMPLIED
>
<!ELEMENT entry ANY>
<!ELEMENT attribute (domain)>
<!ATTLIST attribute
  name CDATA #REQUIRED
  value CDATA #IMPLIED
>
<!ELEMENT axiom (#PCDATA)>
<!ATTLIST axiom
  name CDATA #REQUIRED
>
<!ELEMENT term (domain, attributes, axioms,
```

```
        relationships, subterms)>
<!ATTLIST term
  name CDATA #REQUIRED
  value CDATA #IMPLIED
  class CDATA #IMPLIED
>
<!ELEMENT relationships (relationship*)>
<!ELEMENT subterms (term*)>
<!ELEMENT relationship (source, targets)>
<!ATTLIST relationship
  name CDATA #REQUIRED
>
<!ELEMENT source (#PCDATA)>
<!ELEMENT targets (#PCDATA)>
```