# Tasks

2018-01-26

Some tasks refer to open issues mentioned in the document „RDF Decisions and Open Issues: Dagstuhl Sprint, 16-20 October, 2017” (“[RDF Decisions and Open Issues.docx](https://ddi-alliance.atlassian.net/wiki/download/attachments/113410096/RDF%20Decisions%20and%20Open%20Issues.docx?version=1&modificationDate=1510775282704&cacheVersion=1&api=v2)”).

1. OWL binding syntax  
   Re “III A Technical Issues with the Existing RDF Binding Transformation”
   1. OWL (syntax) validation
      1. (Syntax) validation of the current OWL binding
         1. Method of validation: which kind would be appropriate and which kind of validation is possible?
      2. Integration of validation in the production framework
         1. Development of the validation in a batch step
         2. Generate log output in the production framework regarding success of error messages.
            1. Goal: people responsible for the OWL binding, the model, and the production framework should understand if there is an issue regarding the OWL binding. Issues in the OWL binding can have the origin in …

the definition of the OWL binding

the transforming XSLT

the model definition

* + - 1. Documentation of the validation
  1. Implementation of the improved style of OWL in the binding
     1. Related changes in the XSLT
        1. Re “B Survey of Earlier Work“
           1. Model should not be flattened
           2. Integration of abstract classes. How to indicate abstract classes?
           3. Integration of design patterns. How to indicate design patterns?
        2. Re “G. Round-Tripping among Bindings”, see also “[Syntax for names in models and bindings](https://ddi-alliance.atlassian.net/wiki/download/attachments/113410096/Syntax%20for%20names%20in%20models%20and%20bindings.docx?version=1&modificationDate=1508347693012&cacheVersion=1&api=v2)”
           1. Naming conventions: object names initial uppercase, property names initial lowercase
     2. Documentation of the changes
  2. (Inline) Documentation of the vocabulary
     1. All available UML class documentation should be used for the OWL vocabulary

1. Test cases in RDF  
   re “II Goals and Proposed Agenda Topics”
   1. Similar to the test cases in XML
   2. Roundtrip of metadata: ways of testing this
2. Use of other vocabularies  
   re “II Goals and Proposed Agenda Topics”
   1. Usage of existing RDF vocabularies when available
   2. See for candidates at “E. Using Other Vocabularies and Inclusion in the DDI Model/Bindings”
   3. Documentation of mapping between DDI classes and classes of other vocabularies
      1. Usage of related OWL syntax?
3. JSON binding  
   (2nd priority, realization for prototype only if an easy and straightforward way can be found)