



# DDI-Lifecycle 4.0 Beta 1

Technical Committee

21 May 2024

# Model Based DDI-Lifecycle

Previous versions of the DDI-Lifecycle specification were manually written XML. This made creating different serialisations e.g. RDF very difficult.

This beta version is built on a model held in a simple CSV format called the Convention-based Ontology Generation System (COGS) which gives you a powerful, patterns-based way to build ontologies. COGS includes many features that enable fast, test-driven development for publishing sophisticated models in a variety of formats.

- ❑ Contributions can be made directly to the model
- ❑ GitHub build actions allow automated testing during submission including basic validation

# Model Serializations

The model is available in a range of serializations:

- XML Schema
- JSON Schema
- OMG's UML XMI 2.5
- RDF OWL (closed with restrictions)
- RDF OWL (open)
- ShEx
- SHACL
- Sphinx HTML documentation and visualizations

# Advantages

- Documentation can be better linked to the model
- Easier to create new serialisations Python, R etc
- Tracking changes between versions is more transparent
- Easier to make suggestions for bug fixes and features
- Can be used for other products (SDTL), potentially Codebook
- Less reliance on proprietary products

# Feedback

## Model in general

- Guidance on submitting changes
- Serializations in particular
  - JSON
  - RDF/OWL flavours (closed with restrictions and open)
  - ShEx and SHACL
- Documentation
  - Model
  - High level guidance
  - Serialization specific guidance
  - Examples

GitHub Repository: <https://github.com/ddialliance/ddimodel>

Submit issues: <https://github.com/ddialliance/ddimodel/issues>

Review page: <https://ddi-alliance.atlassian.net/#!/cp/i61CVcUG>