

2025 Dagstuhl Events: Report on Activities and Progress



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This past fall, the DDI Alliance co-sponsored two events at Schloss Dagstuhl, the Leibniz Center for informatics in Wadern, Germany. The first was titled “Metadata Models and Services Typologies in Digital Resource-Sharing Frameworks,” running from November 9 through 14, and the second was “The Provenance Chain: Connecting and Reusing Data, Models, and Experiments,” from November 16 through 21. Both events were well attended, and both were very productive. The workshops were co-sponsored with CODATA.

The first workshop was very much focused on the implementation of DDI specifications. Topics included:

- A proposed collaboration with the W3C around the model of the Variable Cascade featured in DDI Lifecycle and DDI-CDI
- Tools and implementation work, notably including the development of an integration framework for Dataverse to support DDI-CDI (supplementing current support for DDI Codebook)

- A major effort to produce more implementer documentation around the DDI-CDI model
- Concentrated work on the mapping of DDI specifications and the SDMX standard, a current focus of users in the UN/ECE Modern Stats community
- A finalization of modelling efforts to incorporate qualitative data into DDI-CDI, and to produce worked examples

The second workshop was broader in scope, covering not only DDI specifications but also the other standards recommended by the Cross-Domain Interoperability Framework, which is increasingly being used as a template for FAIR implementation. This workshop looked at provenance in the broadest sense, covering a number of specific topics:

- Describing provenance and quality metrics using the W3C PROV and Schema.org vocabularies, suitable for cross-domain descriptions
- Further work on the EOSC CDIF-4-XAS project, describing X-Ray Absorption Spectroscopy data with DDI-CDI, Schema.org, SKOS, and other standards, including non-textual data files such as HDF5 and NetCDF
- A finalized description of Data Access based on the W3C Open Digital Rights Language (ODRL), the Data Privacy Vocabulary (DPV), and the Data Use Ontology (DUO), in a fashion which will be coordinated with other CDIF standards (including DDI-CDI)
- Metadata mapping and integration, looking at how needed transformation of different types can be documented, using the SSSOM and RDF Mapping Language (RML), with DDI-CDI as a primary data format
- Proposed resolution of bugs identified during early implementation of DDI-CDI, and extension of features to include description of binary data formats

Each workshop included more than 20 attendees from a variety of countries and institutions around the globe. Experts representing DDI, other standards bodies, a wide range of scientific research domains and infrastructures, national statistical agencies, and international bodies such as the UN were present.

For more information, you can see the official Dagstuhl websites for [Research Meeting 25463](#) and [Research Meeting 25473](#), or visit the DDI Confluence pages at [2025 Metadata Models and Services Typologies in Digital Resource-Sharing](#)

Frameworks and 2025 The Provenance Chain: Connecting and Reusing Data, Models, and Experiments.