



Report from the DDI-CDI Working Group

DDI Scientific Community Meeting

21 May 2024

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Approval of the Specification

- TC now has the Candidate Release 2, undergoing a focused review by selected group looking at syntax representations
 - Any comments will be disposed of
- This will be followed by a webinar to the DDI community to inform voters on how DDI-CDI fits into the overall product suite
- Git repositories will be used to publish the specification, in line with changes across the board for all products
 - One for the model and specification
 - One for non-specification resources (code, implementation guides, tools)
- Vote is expected in September of 2024

Supporting the Release

- Documentation:
 - Overview document
 - “Working with Other Standards” document
 - Documentation on the variable cascade
 - "How-to" for creating community implementation guides
 - Reference implementation guide/profile for RDF
 - Others
- Tools and Syntax Representation
 - Resources page outlining approaches and code samples
 - Model2Text - Acceleo code for syntax representation
 - Tools for documenting community profiles
 - Code for syntax representation in various languages (Python, R, SHACL, etc.)

Model Topics for Future Work

- Qualitative/Non-Quantitative (subgroup)
- Complex Units of Measure (w/ OECD, CODATA DRUM group)
- Variable dependencies and long-to-wide structures (w/ RDA I-ADOPT)
- Variable statistics
- Better SDMX-aligned multi-dimensional ("slices")
- Any issues arising from implementation

Related Specification (on the Horizon)

- UML Class Model Interoperable Subset (UCMIS)
 - Used in developing DDI-CDI
 - Possible use for other standards
 - Aligns us with the OMG through use of Model2Text standards and Canonical XMI

Working with Implementers/Other Standards and Initiatives

- WorldFAIR Cross-Domain Interoperability Framework (CDIF) uses a profile of DDI-CDI
- UKDA Data Product Builder
- ESS Labs “Climate neutral and Smart Cities” (Process model)
- US Bureau of Labor (multi-dimensional model)
- UNSD has prototyped a service for generating DDI-CDI from SDMX Web Services (ILO example)
- Nectar Publisher - DDI Developer's Group (CSV-to-DDI)
- Sikt SPSS/Stata Prototype
- Several EU Horizon and EOSC bids include DDI-CD (X-Ray Absorption Spectroscopy, Environment & Climate data, etc.)
- Collaboration with Dataverse for DDI-CDI implementation
- Possible use of DDI-CDI as basis for new OMG specification for statistical data
- Collaboration with UN/ECE Modern Stats group (SDMX-DDI alignments)
- Other(?)