



EUDAT 1st Working Group Meeting – Track: Semantics and Linked Data

Tentative agenda

Meeting facilitator: Yann Le Franc, Raphael Ritz

The Semantic Working Group has been started during the first phase of EUDAT and aims at supporting the ongoing development of semantic services in EUDAT CDI. The meeting aims at discussing practical/technical issues that should be tackled by the Working Group and propose an operational organisation for the WG as well as a roadmap and requirements/specifications for future semantic web/Linked Data services.

The meeting will be centred around three main topics and related questions:

- 1- Semantic Infrastructure and Data Care: current practices/architecture vs. new technologies/approaches:
 - a. How can we evaluate the existing standards and software/infrastructure solutions in comparison with emerging new technologies and data formats?
 - b. What would be an optimal semantic infrastructure for EUDAT CDI?
 - c. Can we propose/document a set of good practices and recommendations for deploying semantic web/Linked Data infrastructure?
 - d. What are the current practices for semantic data care and their limitations? How can we overcome these limitations?
 - e. What are the different initiatives working in this area and how should we collaborate with them?
- 2- Supporting the Ontology Life Cycle: building innovative services for ontologists and data curation
 - a. What kind of services could be provided to support ontologists and data curators?
 - b. How do we assess the quality of a formal ontology?
 - c. Can we propose a sandbox to test formal models?
 - d. How do we support dynamic ontologies?
 - e. Can we build a continuous integration platform for ontology design?
 - f. How can we ease the use of ontologies by scientists?
 - g. How can we ease the burden of ontology mapping/reuse?
- 3- Semantics in Data: annotating datasets in EUDAT CDI
 - a. What is the Data Type Registry?
 - b. How do we enable deep dataset annotation using DTR?
 - c. Is there something new in DTR and why do domain scientists find DTR attractive?
 - d. How do we make DTR interoperable with existing ontologies?
 - e. How do we guarantee DT uniqueness? Should we consider a central repository for attributing unique DT identifiers?
 - f. How can we annotate datasets with domain specific high level concepts?



- g. How can we make use of the OpenAnnotation model for annotating fragments of data?
- h. Can DTR and OpenAnnotation be used together?

Sessions are organized as brainstorming sessions. All the participants are welcome to contribute with a short presentation of their work or ideas (5 minutes) and contribute to the discussions.

12. November, 2015		
11.00	Welcome by EUDAT and BSC	Peter Wittenburg and Sergi Girona
11.05	Introduction to EUDAT and the Workshop intentions and Q&A	Peter Wittenburg
11.25	Moving to track location	
11.30	EUDAT semantic services and main questions of the track	Yann Le Franc
11.45	Signposting, a low-barrier component of semantic infrastructure	Herbert van de Sompel
12.00	Additional presentation	Participants
12.15	Brainstorming on infrastructure, data care good practices, benchmarking and benchmarking publication	
13.00	Lunch Break	
14.00	Supporting the Ontology Life Cycle – Our initial ideas	Yann Le Franc
14.15	Additional presentation	Participants
14.30	Brainstorming: defining a first set of requirements and services	
15.30	Coffee break	
16.00	Semantics in Data – Short intro	Yann Le Franc
16.05	Basic Principles of Data Type Registries	Larry Lannom
16.20	DTR applied to Material Science	Laura Bartolo
16.35	DTR applied to Atmospheric Science	Stephan Zednick
16.50	Discussion of use-cases in other domains	
17.20	Practical aspects of data annotation – Discussion	
17.45	Wrap Up of the day	
20.00	Dinner	
13. November, 2015		
9.00	Where do we go from there?	Yann Le Franc
9.15	Discussion	
10.30	Coffee break	
11.00	Conclusions from this track: summarizing the discussion and formulating recommendations for the EUDAT WG.	
13.00	Lunch break	
14.00	Reporting and General Conclusions	Chairs
14.45	Wrap Up of the Organizers	Daan Broeder, Peter Wittenburg
15.00	End	



Note: sessions common for all 3 meeting tracks are highlighted in darker shade

At the end of this event a few questions should become clear and time to discuss these questions has been reserved for this:

- How do we publish benchmarking results and recommendations?
- What would be an optimal semantic infrastructure for EUDAT CDI?
- How should we organize the EUDAT Working Group to involve interested participants and existing initiatives like EUON?
- Which type of services should we developed to support ontologists and data curators? Can we define a roadmap and an initial set of requirements?
- How do we allow for in depth data annotation in EUDAT CDI?

Further comments and suggestions to optimize the agenda are welcome.