

Deliverable D4.4: *Tutorial for Software Developers (R6)*

What is the contribution of this deliverable to the overall goals of BEST?

BEST developed various technical resources (transformation scripts, ontologies and software) to demonstrate and experiment with the use of semantic technologies in ATM information management. These are open for use by people outside the project, and could be useful for further research: the goal of providing this deliverable is to make these technical resources more accessible to others by providing guidance on how to adopt and use them.

Current Status of the Deliverable

Completed and approved by funding authority (SJU).

What items does the deliverable contain?

- When we talk about a “Deliverable” in BEST, we mean not only the formal document describing the work done, but also any associated technical artefacts such as software, models, ontologies, diagrams etc.
The tutorial itself is just a document, but it only has real value in connection with the technical artefacts: information is provided below on how to access these.

The table below summarises the technical results described in the tutorial document and, where appropriate, provides links that can be used to download and use them.

Disclaimer: All of these technical resources were developed in an exploratory research project, at TRL 1. Users should not expect product level quality, and the BEST consortium cannot provide any guarantee of the completeness of correctness of any of the items.

Item#	Brief Description	What it can be used for	Link
1	Ontologies and Ontology Generation	<ul style="list-style-type: none">• To learn how transformation scripts were used in BEST – and how you might possibly adopt and adapt them for your own use.• To access the ontologies already developed in BEST and use them for your own purposes.	Ontologies developed in the project: http://www.project-best.eu/downloads/ontologies/ontologies.zip Transformation scripts to generate ontologies: http://project-best.eu/downloads/ontologies/xslt/xslt.zip

2	Tools for modularisation of ontologies	<ul style="list-style-type: none"> • To learn how to use the module extractor tool to split a large ontology into smaller modules (each an ontology in its own right), based on user-defined criteria that can be based on: <ul style="list-style-type: none"> • Number of classes • Concepts • To learn how to use associated tools for reporting on the modularisation process and identifying redundancies 	https://github.com/sju-best-project/ontology-modules
3	Compliance and Ontology Matching Tool	Learn how to use the tool to: <ul style="list-style-type: none"> • Import ontologies • Match ontologies • Select matching strategies • Produce a report on semantic correspondences that the tool has identified 	https://github.com/sju-best-project/compliancevalidator
4	Semantic Container Management System Prototype	<ul style="list-style-type: none"> • Understand the <i>Semantic Container</i> concept and how it can be used in ATM information management with SWIM services • Learn about how a prototype infrastructure needed to support the Semantic Container concept (i.e. for distribution and automated replication of data) was developed and used in BEST • Understand what would be needed to develop a product-quality semantic container management system 	<i>The prototype depends on other, proprietary, infrastructure used in developing BEST demonstration prototypes, so cannot be made available as a stand-alone prototype for general use.</i>