EXP2XSD (Express to XSD model transformation)

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Table of contents

1. Datasheet

Solution data	
Name	EXP2XSD (Express to XSD model transformation)
Result type	Model transformation
Description/functionality	The EXP2XSD model transformation tool, is a tool that makes the mapping of the structural part of a model described in STEP-EXPRESS (ISO 10303-28) to XML Schemas (XSD) according to the recommendations of Part28 (ISO 10303-28).
Benefits to interoperability	• The STEP standard currently defines three neutral data exchange formats – ASCII text file (STEP Part 21), programming language APIs (STEP Part 22-27, 29), and XML (STEP Part 28). • Only a few relatively specialized applications, such as STEP translators and STEP repositories, use the API programming language, called Standard Data Access Interface (SDAI) [5,9]. Unlike the STEP Part 21 syntax, XML data is easily extensible and is supported by numerous inexpensive and widely used software tools. Thus, from the perspective of a typical programmer, it is easier to render XML data into forms that are suitable for human perusal [2]. • The output of this transformation tool is the representation of the model in XML that will be used for implementation purposes, and also in the conformance testing process.
Supported models/methodologies	-
Supported input interfaces	EXPRESS
Supported output interfaces	XML Schemas
Validation/demonstration	Validation and demonstration in the B5 testing and piloting activities, particulary for AIDIMA and EADS scenarios.
Standards compliance	• EXPRESS: ISO10303-11 (www.tc184-sc4.org) • Part 28 : ISO 10303-28 (www.tc184-sc4.org) • XSD: www.w3c.org
Availability	Installed service/solution

License	-
Status	Prototype
Requirements/dependencies	• Requires JAVA 1.4 or above. • Depends on the Part 28 evolution, wich specifies a standard way to map from the EXPRESS standard to the XSD standard
Web references	
ATHENA metadata	
Contact person	Hugo Vieira, UNINOVA
Contributors	UNINOVA
Provided by project/activity	• A6 – Model-driven and Adaptive Interoperability Architectures
Deliverables representing result	-
Contribution to key result	• 13. Model-driven and Adaptable Interoperability Framework and Infrastructure
Used in pilot	-
Deliverable providing evaluation	-