

OASIS LegalXML Integrated Justice Technical Committee

Implementation of Global Justice XML Data Model 3.0.2 through the Use of Universal Business Language Methodology and Core Component Constructs

Proposed White Paper

January 24, 2005

Introduction

During its January, 2004 face-to-face meeting, the OASIS LegalXML Integrated Justice Technical Committee, conducted a review of the Universal Business Language (UBL) schema development methodology and naming standards. The purpose of the review was to compare the methodology of schema generation developed by the OASIS Universal Business Language Technical Committee with the development methodology being established for the GJXDM 3.0.2 reference document schemas.

During the methodology review, the OASIS LegalXML Integrated Justice Technical Committee members began to recognize similarities in the processes and procedures advocated by the UBL committee for the development of conforming schemas. Some of those common processes and procedures include:

- Use of UML class diagrams to illustrate the data components as a model describing the practitioner's domain.
- Use of spreadsheets to illustrate the assembly of components (complex types and elements) to create documents.
- Attempts to automate the process of developing conforming schemas by finding open standards software that can distribute artifacts between developed models.
- Use of components as building blocks that can be reused horizontally across document types.

At the same time similarities were being identified, the committee recognized differences in the UBL methodology and schema architecture that could be applied to further the development and implementation of the GJXDM 3.0.2. Many of the concepts of the UBL, such as the utilization of reusable components between documents, the concept of Association Core Components and schemas that represent specific activities against a core document, may help in finding answers to issues related to the GJXDM 3.0.2. These include:

- Transaction Vs, Document Information Exchange Implementations
- Reuse of Super Type Objects across document types
- Context Assignments for Super Type Objects
- Transformation of Information from one Document Type to Another

To further the discussion and research on the benefits of comparing UBL structures and methodologies with the GJXDM 3.0.2 standards, the OASIS LegalXML Integrated Justice Technical Committee assigned the task of producing a white paper to Winfield Wagner. The white paper will provide a horizontal analysis of the two standards and how GJXDM 3.0.2 can benefit from some of the concepts being promoted for the UBL.

Scope of Work

Through the use of a Traffic Citation Use Case, the white paper will provide an example of how UBL and LegalXML Justice Integration concepts and schema development methodology could possibly be used in concert for the assembly of GJXDM 3.02 reference schemas and transactional schemas. Through the initial review of the similarities and differences between the two disciplines, the white paper will propose a strategy for developing a package of schemas that represent the entirety of the reference schemas now being developed through the proposed methodology proposed for justice and the transactional or event schemas being supported by the business community.

The content of the white paper will include:

- Short synopsis about the two schema standards architecture
- Short synopsis about the two schema development methodologies
- Review of the similarities and differences between the two approaches
- Suggested consolidation approach that can be utilized against the GJXDM 3.0.2.
- Review of the Traffic Citation Use Case
- Description of how the consolidation approach is applied to the Traffic Citations
- Review of the benefits, issues and problems that were identified during the implementation of the consolidated approach against the use case
- Review of the models and artifacts generated during the consolidation
- Insights and recommendations on how the consolidation UBL standards and methodology may or may not improve the use of GJXDM 3.0.2.

Deliverables and completion dates

The following table outlines the major deliverables, and tasks and their proposed completion dates to complete the proposed white paper by April 8, 2005.

Deliverable	Completion Date
Final research and analysis	02/04/2005
Methodology and architecture review of UBL and GJXDM	02/11/2005
Identify similarities and differences	02/18/2005
Construct Traffic Citation Use Case for JIEM output	02/25/2005
Identify UBL and GJXDM 3.0.2 Consolidated Approach	03/04/2005
Construct Schemas for Use Case Using Consolidated Approach	03/11/2005
First Draft of White Paper	03/25/2005
LegalXML Integrated Justice Peer Review	04/01/2005
Final Draft of White Paper	04/08/2005