Sofia University "St Kliment Ohridski"

Faculty of Mathematics and Informatics

Department of Information Technologies

Master of Science Thesis

Topic: Middleware component for transformation of electronic trade documents to internal XML standard

Student: Ivo Emilov Jekov, FN№ 42649

Thesis Tutor: Ass. Prof. Sylvia Ilieva

Annotation:

Nowadays we are the witnesses of increasingly thorough industry usage of information technologies, especially for integration of business systems and automating communications between them.

The advantages of corresponding solutions are numerous and indisputable – optimization of operations, decreasing possibilities for errors to occur, full automation of business processes in given organization and between organizations. But along with that, because of the dynamic nature of e-business, the main challenge has arisen – how to design and implement flexible solutions to allow easy connectivity to new systems and the extensions of already existing ones.

This is the main goal of present Master of Science thesis. BDI (Business Documents Integrator) system is middleware component, which transforms incoming documents to flexible, robust, easy to extend internal XML standard. In that way, unifying the data format, the main business goal of separating flow processes and data format is attained.

Sofia, 29.06.2005