



## Export Import uTilities (ExIt)

### Overview

**ExIt** is a set of utilities for supporting the transferring of data between relational or a tabular format database to an XML/RDF database. ExIt consists of the following modules:

- (1) Ex2XML : transferring data from Relational or tabular formats to XML/RDF
- (2) Im2RTF: transferring data from MsExcel to Relational DB (Sybase, access, etc.)
- (3) CVEx2XML : transferring controlled vocabulary terms to XML/RDF

**ExIt** encompasses a number of different technologies, including ODBC, JDBC connection to relational database and also export/import functionality for BLOBs (Binary Large OBjects). The mappings which can be declared using the operators cover a wide range of the needs which occur during the definition of mappings between a relational and an object-oriented/XML/RDF schema. An efficient implementation ensures high performance in dealing with large volumes of data in transfer.

The collage illustrates the ExIt utility's application in cultural heritage data management. It includes:

- A screenshot of the ExIt software interface showing various data entry and management windows.
- A diagram showing the data flow: Relational DB and Ms EXCEL connect via ODBC/JDBC to the ExIt Set of services, which then outputs to XML/RDF.
- A screenshot of a web application titled 'Ψηφιακές Συλλογές' (Digital Collections) displaying a grid of cultural artifacts.
- A screenshot of a database window showing a table with columns for 'id', 'name', 'description', and 'image', containing data for various artifacts.

### Target Domain

**ExIt** can be applied in a number of domains including culture science, library collections, industrial sectors etc.

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## Additional Information

**ExIt** has been used in the following organizations:

### **Greek Ministry of Culture:**

(1) In the project “Digitisation and Digital Documentation of the Hellenic Ministry of Culture Monuments Collections” approximately 140.000 mobile monuments (with photos):

- Data transferred from 26 local databases to the new installation of National Archives of Monuments. The Im2RTF utility was applied to different database formats, including MsExcel, MsAccess, Filemaker, SQL Server
- Data transferred from 40 excel files, with basic documentation information to National Archives of Monuments.
- The Ex2XML service was finally used in order to export all 140.000 mobile monuments in XML format and presented in Digital Collections Site of Hellenic Ministry of Culture and Sports in <http://collections.culture.gr/>

(2) within “INTERREG II, Information Highway linking organizations in Crete, Cyprus and south-eastern Mediterranean (Cultural Telematics Applications) ExIt was used for transferring data from installations in UNIX into installations in Windows (Sybase)

### **European Centre of Byzantine and Post Byzantine Monuments (EKBMM) :**

- within the framework of project “Cultural Information Management System for the Monuments of the Byzantine Era” used for transferring data from remote access databases into a Central Information System for the monuments of the Byzantine World
- within the framework of the operational programme “Information Society”, (Measure 1.3) and the project “ANNA KOMNENE: DEVELOPING AND PROMOTING ONLINE MULTILINGUAL PUBLICATIONS AND A BYZANTINE PERIOD MONUMENT PORTAL” a number of 300 immovable monuments were transferred from Relational format to SYNTHESIS/XML/RDF system

### **Mount Sina Monastery Foundation (IOS):**

- under project “Documentation, Digitization and Promotion of Mountain Sinai cultural heritage” within the framework of the operational programme “IS”, Measure 1.3, Call 65, a number of 6.000 mobile monuments transferred from tabular format to SYNTHESIS system

### **National Museum of Contemporary Art (EMST) :**

- used for the export of about 12.300 objects from MSSQL database to XML format, compatible to ISO21127

### **Noord-Brabant Province in the Netherlands:**

Under a collaboration agreement with Delving, data transferred from 5 local databases of historian societies to SYNTHESIS system (aprox. 12.000 objects)

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