



## Liberate your Customer’s Legacy System – Opening new markets Legacy Modernization services from FreeSoft

### Legacy modernization solutions

FreeSoft has been involved in the IT modernization and legacy transformation business since 1998 FreeSoft has built up a line of conversion technologies, project methodologies and processes to understand and transform a great variety of legacy software into a modern IT environment and a new architecture, while ensuring the lowest risk and cost. Our IT modernization services enable customers to transform different legacy systems running on heterogeneous proprietary platforms, developed in various programming languages using data stored in legacy databases and file systems, into a J2EE environment SOA based architecture. We offer an automated transformation solution for large scale legacy applications based on:

#### Non Relational Databases:

- ADABAS
- IMS/DB
- VSAM/ISAM

#### Relational Databases:

- DB2
- Informix
- Oracle

#### TP Monitor Systems:

- CICS
- IMS/DC

#### Programming Languages:

- NATURAL
- Informix 4GL
- COBOL, RPG

### Why would you be interested?

FreeSoft as a technology provider will open up markets to you that could not be exploited because your lack of main-frame and legacy modernization expertise, methodology and the resources required to manage and execute such projects. Using FreeSoft’s services you will gain the following benefits:

- Enter into the multi billion dollar legacy modernization market where you sell your own services and gain new clients and revenue
- Keep existing clients while you liberate their legacy systems and sell your services and increase your revenue
- Provide leadership for your clients

### Legacy Modernization project execution

The legacy modernization follows a step by step approach. First we have to understand the business and technical assets of the customer and determine which assets are good

candidates for the modernization. After determining the assets to be modernized we execute the transformation with our automated tools using our modernization methodologies and partner services.

### Application Portfolio Management (APM)

FreeSoft’s APM provides the customer with an inventory of its IT portfolio including hardware and software infrastructure, legacy application, business processes and even organizational structures in order to support the strategic decision of IT modernization. Therefore the solution focuses on the documentation of the existing IT system elements. The core of the APM solution is a software application, which is generally an on-line data store that is capable of generating diagrams, application maps, infrastructure drawings and text reports based on the information stored in a relational database, with very flexible query options. The information in the database comes from existing documentation of the IT system, and from a source code analysis carried out by unique code parser software tools.

## APM – assessment project methodology

- Understand the need of the customer management to provide valuable information about the IT portfolio
- Collecting information on the IT infrastructure and the business processes via interviews and analyzing existing documentation
- Create the data model of the APM tool, in cooperation with the customer
- Record all existing and available information about the IT portfolio into the APM tool
- Source code analysis with the FreeSoft toolkit and record application object information in the APM tool
- Training the customer to maximize the benefit of the reporting options in the APM tool

## Legacy transformation

FreeSoft's transformation solutions enable legacy users to implement the existing business processes and data of their IT system in a completely new environment while taking the possible lowest risk, within the shortest duration in a cost effective way. The target environment is J2EE, which builds a strong base for the strategic implementation of the SOA. In order to achieve these goals the very high level of automation is the main characteristic of the transformation process, serving the following benefits for all the members of our customers' organization:

- shorter project duration, as compared to any other options to modernize applications (CIO)
- lower costs (CIO)
- standard quality of source code, option to adapt

existing company coding standards (developers)

- iteration in the transformation process, re-generating components (project members)
- better quality of the data and same or better business processes as before (end-users)

**The transformation process is supported by automated converter tools with the following functionality:**

- parsing and analyzing application source code, store the information in various re-positories (XML)
- generating software components based on the repository information (metadata), iteration in generating components

## Project methodology

- Building the modernization strategy, project planning, bidding, building QA and test strategy based on the information gathered in the APM phase
- Environment migration, re-hosting (JCL;CICS; etc.)
- Automated database and data migration, data access migration to J2EE.
- Data cleansing, data model consolidation
- Automated transformation of the application into J2EE, transformation of the business logic and the presentation layer.
- Workaround for non-convertible objects, manual intervention in the code.
- Testing and QA. Unit test, integration test, regression test.
- Re-engineering option based on UML.
- Go production.

## Legacy Modernization project setup

The most beneficial set-up for the modernization project is as follows:

### Partner's contribution:

- Act as Prime contractor and customer interface
- Sell your own services
- Acquisition and consulting process
- Project delivery/project management
- Testing and QA
- Integration and handover of migrated solution

### FreeSoft's contribution:

- Owner and user of migration tools
- Support of the acquisition process with presales effort
- Automated migration
- Unit and functional testing

