



ENABLING THE FUTURE

Natural / Adabas Migration Solutions

Background

FBD Associates Inc. (FBDA) is a software tools company specializing in the delivery of high value-added solutions for Natural/Adabas users. The company's key technologies are:

- **NatMiner™** – a web and repository based toolset for analysis and application mining of Natural/Adabas applications.
- **JavNat™** – a toolset for highly automated transformation of a Natural/Adabas application to a functionally equivalent Java/Oracle implementation.

The FBDA tools are built on robust parsing and repository technologies whose initial development was initiated in 1990. The technologies were originally developed to support Natural to Natural migrations (Natural 1.2 to 2.1 for example) and subsequently for Year 2000 analysis. The parsing technology in particular has been used to process over 500 MLOC of customer source code from all of the mainstream Natural dialects.

The general capabilities and architecture of the NatMiner tools are described herein.

A separate brochure describing the JavNat tools is available for download from www.fbda.ca.

NatMiner Process

NatMiner analysis is normally provided using the Application Service Provider (ASP) service model. This ASP model allows for a low cost delivery to the customer with minimal installation and training.

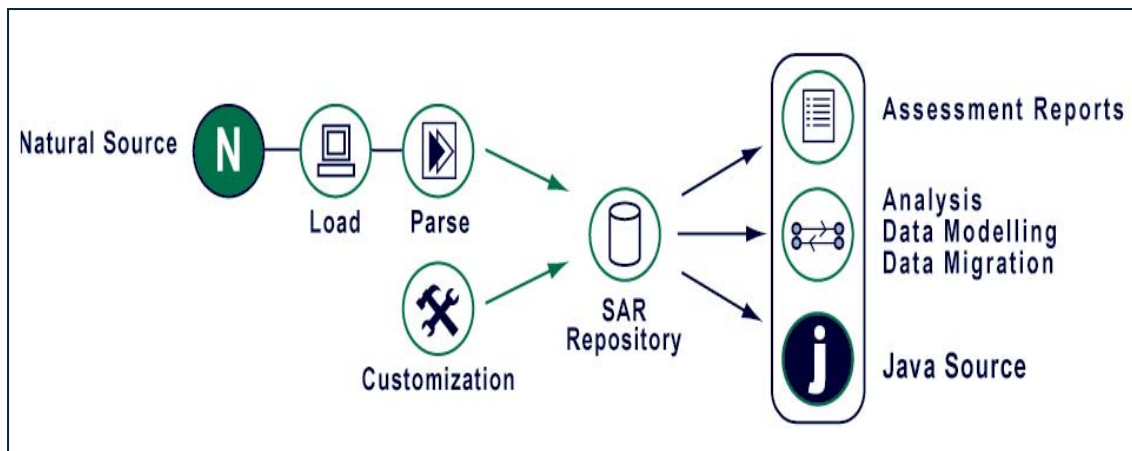
Customer application source code is typically provided to FBDA via ftp in SYSTRANS format. The SYSTRANS files are decoded by FBDA, stored in a directory structure, and provided as input to the NatMiner parser.

The NatMiner parser uses a BNF grammar model for each of the major Natural dialects to parse the Natural source code, including the Adabas FDTs, in detail. The output of the parser is stored in an Oracle based Syntax Analysis Repository (SAR).

The resulting SAR database contains sufficient detailed data to support re-generation of the source code without reference to the original source text. All subsequent processing, reporting and query generation is then driven from the SAR database.

After the SAR database has been loaded a comprehensive series of reports are generated and produced in HTML format to support delivery to the customer via an FBDA web server and a customer client web browser. The reports allow navigation via hyperlinks to review the SAR data and conduct detailed analysis tasks.

The NatMiner processing cycle is illustrated in below.



The NatMiner capabilities described herein are a subset of the full capabilities. The capabilities will continue to evolve over time. Readers are encouraged to visit our web site to obtain the most recent information.