

TRANSLATION STUDIO

Now with EJB 3.0 and Web Services Migration Support!

Application owners and developers face a very demanding challenge when converting their Visual Basic applications into an Internet and Service Orientated Architecture (SOA) solution. International companies and organizations are constantly looking for new effective products and services for their customers resulting into a faster time-to-market and a lower maintenance cost.

Using Translation Studio from Devcontrol will bring you one big step closer to achieve that goal!

Translation Studio is a fast, economical and low risk migration solution for moving your old Visual Basic applications to a true n-Tier web application with a J2EE or .NET-based back-end without the use of any external tools or binaries. Translation Studio helps companies and organizations to a thin centralized architecture using only Java or C# as a programming language. Our framework, which contains a set of business logic rules, allows the user to define the desired architecture for the translated .NET or J2EE applications using simple point and click checkboxes.

The Future is here

Translation Studio is not only a simple tool for converting code from one programming language to another but was created with the whole migration process in mind. Accordingly, as seen the table on page 2, the tool features several functions to facilitate the migration process. In essence, Translation Studio has been created to enable and optimize the key phases of migration i.e. analysis, conversion, refactoring, testing and deployment. Moreover, the converted source code is fully compatible with development tools such as WSAD, RAD, Eclipse, Sun Java Studio Creator, NetBeans IDE 6.0, Visual Studio .NET and Microsoft Visual Web Developer which means that customers are not locked into a proprietary solution that will constrain future choice.

Without the use of this highly automated technology, there is a tremendously high risk that the business logic will not be captured or that it will be captured with a severe level of misinterpretation and that is an extremely high cost for anyone to endure.



Lots of Benefits!

Translation Studio can also offer the feature of guidelines check-up! During a translation of a legacy system, Translation Studio detects and automatically renames variables, parameters and methods to comply with either the general Sun Microsystems Java Coding Style Guide or Microsoft MSDN standards. By using general coding standards, developers can easier understand the converted code, thus resulting in increased readability and maintainability.

Furthermore, Translation Studio also supports generation of Javadoc or XML-documentation (.NET) during the translation phase. Translation Studio automatically detects comments and meta-data defined in classes, interfaces, modules, fields and methods and produces a comprehensive and accurate professional quality Javadoc or XML-documentation. In large projects, this feature will save many days of boring tedious work and further improve the readability and maintainability of the converted system.

Impressive Technique

Automatically conversion from a desktop application to either a thin J2EE client or to a thin .NET client is a unique capability. The business logic rules have been carefully designed and implemented in order to create a fully scalable, component based .NET or J2EE standard architecture.

EJB 3.0 and Web Services Migration Support

Enterprise JavaBeans (EJB) technology is the server-side component architecture for Java Platform, Enterprise Edition (Java EE). EJB technology enables rapid and simplified development of distributed, transactional, secure and portable applications based on Java technology. Furthermore, one of the most exciting new features of the Java Platform, Standard Edition 6 (Java SE 6) is support for the Java API for XML Web Services (JAX-WS), version 2.0.

Our inbuilt refactoring framework enables Translation Studio v3.4 to automatically detect and translate more complex applications including VB ActiveX DLL's etc. One of the new features is to transform ActiveX DLL's to equivalent Java Web Services according to the well-defined Java API for XML Web Services (JAX-WS) 2.0. Translation Studio can also convert DLL's to managed server-side components following the latest EJB 3.0 specification. Both of this features is highly configurable making it is easy to choose the desired architecture.

TRANSLATION STUDIO OVERVIEW

Product	Description	Benefits
Project Analyzer	A program used to provide a high-level picture of the migration project and give an estimation of the migration effort. The tool efficiently collects core data critical for an accurate estimation directly from the source code of the VB application to be migrated.	Risks, external dependencies and unsupported situations can be identified early in the migration process, thus making it easier to plan ahead and take the appropriate action needed.
Application Analyzer	The Application Analyzer tool is used by the migration engineer for efficiently planning the complete migration project. The tool gives valuable detailed information directly from the source code.	The aim of the Application Analyzer is to deliver important meta-data information to the project members involved in the migration, hence enabling planning in a risk-conscious fashion.
Dead Code Removal	The Dead Code Elimination algorithm removes unused parts of the code in order to increase the modifiability and the readability of the converted system.	The presence of dead code may reveal either logical errors due to alterations in the program or significant changes in the assumptions and environment of the program. The productions of cleaner applications will offer companies greater operational efficiency.
Javadoc	Javadoc is the industry standard for documenting Java classes. Translation Studio automatically generates Javadoc HTML during the language conversion according to Sun Microsystems Java Coding Style Guide.	Writing documentation is time consuming and error prone. Translation Studio can solve these problems quickly by generating concise written Javadoc documentation automatically, thus saving a vast amount of time.
XML Documentation	XML documentation in .NET is the industry standard for documenting .NET projects. Translation Studio generates a compatible .NET documentation according to Microsoft MSDN automatically.	Developers will be able to clearly understand the code and utilize features such as IntelliSense. They will also be able to employ third-party tools such as NDoc to generate professional-looking MSDN-style documentation.
IDE Support	The generated source code is fully compatible with development tools such as Visual Studio .NET, Eclipse and Sun Java Studio Creator, thus resulting in that customers are not locked into a proprietary solution that will constrain future choice.	Developers and system architects can easily choose their preferable development environment and thus improving the operational efficiency and effectiveness.
Guidelines Check-Up	Guidelines check-up, insures that the converted code follows either the general Java standards or Microsoft MSDN standards.	By using general coding standards, developers can easier understand the code, resulting in increased readability and maintainability.
Coding Standard	Translation Studio has a built-in module making it possible to easily integrate a customer-based coding standard framework. For an example, a user can define prefixes and suffixes for all kinds of variables.	The tool automates the process of checking the converted Java code to spare humans of this boring but important task. This makes it ideal for migration projects that want to enforce a customer specific coding standard. It is highly
IFM	Translation Studio translates VB6 API and Win32 API functions to Java and C# native equivalents by using Devcontrol's Intelligent Functional Mapping technique, thus avoiding external Java and C# wrappers or use of Microsoft VB.NET namespace.	Through the IFM technique, Translation Studio's customers avoid 3rd party license fees as well as future dependencies. Moreover, the resulting code is also easier to read and maintain.
Web Services and EJB 3.0 Migration Support	Translation Studio translates automatically VB COM DLL's to either a Java Web Service using the Java API for XML Web Services (JAX-WS) 2.0 or to a managed, server-side component following the latest EJB 3.0 specification, i.e. by using the Stateless, Stateful, MessageDriven or the Entity keyword to annotate the bean classes.	SOA allows businesses to enable legacy systems and new software products as a service to a wider audience by way of the Internet. Web services technology is the cornerstone of SOA implementation, which involves complex business transactions between various business entities.