

.NET Conversion Solution

Modern Systems designed and developed a unique patent-pending automation technology called DBShuttle™, which allows modernization with 100% automation, functional equivalency, and equal or better performance at execution.

The Modern Systems teams use DB-Shuttle to convert legacy databases to relational technologies and legacy applications to newer, more open languages, using just a few clicks. With DB-Shuttle, Modern Systems guarantees retention of customer business rules and retention of the legacy asset on the new platform.

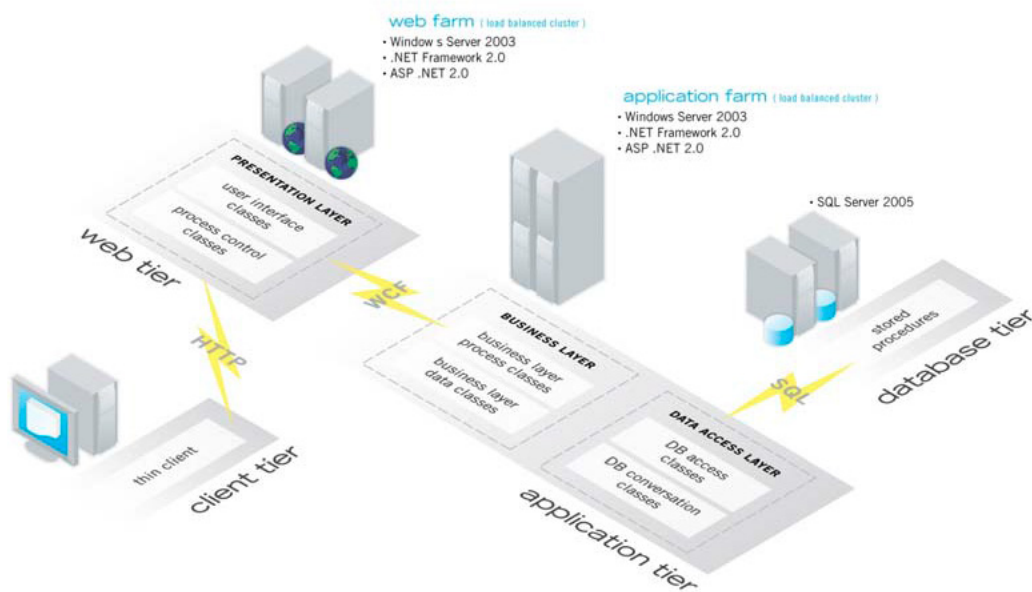
DB-Shuttle provides automated technology that protects legacy assets, reduces maintenance costs, provides agility and flexibility, and enables Service-Oriented Architecture (SOA) within business-critical applications.

- 100% Automated Conversion
- Functionally Equivalent
- Retention of Business Rules
- Equal or Better Performance
- SOA Enablement

Overview

DB-Shuttle uses the customer source code as data within its comprehensive SQL Server database. It analyzes and manipulates that data during de-construction of the legacy databases and applications, and construction of the replacement relational databases and applications.

The .NET solution is an important addition to the DB-Shuttle Automation Technology. For many years, Modern Systems has provided powerful automated migration solutions to convert older applications and databases to newer relational mainframe technologies. The business case for .NET Framework legacy migrations has never been more compelling, particularly in a highly competitive global market, where moving to Web-based applications is the bottom line.



Modern Systems followed the Microsoft Architecture design for its .NET solution architecture



.NET Conversion Solution

Leveraging Your Legacy Assets

Modern Systems has integrated the latest versions of Visual Studio and SQL Server into its Microsoft .NET Framework-based solution. DB-Shuttle will automatically migrate mainframe applications and databases to up-to-date languages and database management systems.

DB-Shuttle helps companies migrate applications away from proprietary environments to modern technologies such as Microsoft .NET in support of an “off-mainframe conversion solution.” The resulting applications require no license fees from Modern Systems and contain no proprietary languages or “black boxes”.

DB-Shuttle provides an automated conversion of Adabas, IDMS, IMS and VSAM Mainframe databases and applications to Microsoft SQL Server or Oracle. DB-Shuttle ensures the integrity and completeness of the refactored data. The new databases are designed for optimal performance on the new platform.

DB-Shuttle also provides automated conversion of all of the related mainframe applications to a multi-tier .NET Framework environment that uses Microsoft SQL Server and the Microsoft suite of tools. The new applications are generated in C# using Windows Server, ASP .NET and the .NET Framework.

When a migration to the .NET Framework is complete, the resulting applications are functionally equivalent, seamlessly integrated and contain Web capability that provides a greatly reduced cost structure, improved business agility and new technical capabilities.

.NET Solution Features

- Produces an n-tier architecture that is modular and maintainable
- Creates a Presentation layer that includes ASP.NET web forms, JavaScript and navigation framework classes
- Creates a Business Layer consisting of converted business code as C#.NET classes
- Creates a Data Access Layer consisting of C#.NET classes utilizing ADO.NET
- Automates the Conversion of external application touch points commonly found in complex mainframe environments

DB-Shuttle Benefits

- Provides rapid legacy system conversion and deployment to the .NET Framework
- Delivers 100% functionally equivalent applications and databases
- Retains 100% of business rules
- Results in an easy-to-maintain n-tier architecture
- Requires no code freeze for the Conversion exercise
- Produces application components that are SOA enabled
- Includes Data Cleansing features
- Produces high-performances applications and databases
- Supports new technology through open data structures

- n-Tier Architecture
- Presentation Layer
- Business Layer
- Data Access Layer

