

.NET Solution Protects Legacy Assets through Automated Conversion

DB-Shuttle™ automation technology reduces maintenance costs, provides agility, increases flexibility and enables Service-Oriented-Architectures (SOA).



ATERAS and Microsoft® together provide the optimum solution for the migration and modernization of legacy mainframe technologies to the robust, agile, and powerful .NET Framework application environment. The business case for .NET Framework legacy modernization has never been more compelling, particularly in a highly competitive global market, where moving to Web enabled applications is the bottom line. ATERAS and Microsoft provide the optimum cost effective solution for global enterprises to migrate off the mainframe to the .NET Framework.

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The ATERAS strategy eliminates the risks, shortens the timeline for modernization, and lowers the cost of the conversion. While the ATERAS strategy minimizes manual intervention during the conversion process, it maximizes the resulting application's performance, ease of enhancement and extendibility.

The ATERAS solution based on Microsoft's .NET Framework for legacy migration and modernization includes a complete strategy, methodology and process for the entire effort, from conception through deployment. The ATERAS DB-Shuttle™ automation technology conversion ensures success in all phases of your project. 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.

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

The DB-Shuttle technology is unique in the industry because it provides 100% conversion of databases, data and application software. With the ATERAS process, manual intervention is not necessary.

The primary functions of DB-Shuttle include its ability to:

- Inventory and assess any mainframe applications in great detail, pin-pointing those areas that require special attention
- Convert entire applications to newer languages (Microsoft® Visual Basic®.NET or C#) using customer specific naming rules, standards and requirements
- Convert non-relational databases (IMS, IDMS, VSAM, ADABAS) to relational technology (Microsoft SQL Server™) while preserving all existing data access paths
- Convert non-relational data to a relational load format without the data ever leaving your environment

DB-Shuttle performs automated conversions of legacy systems such as IDMS, VSAM, Adabas and IMS, including the mainframe databases and applications, to a multi-tier .NET environment. This includes converting older applications to new languages such as Microsoft Visual Basic.NET 2005 and C#.NET 2005 as well as converting the non-relational databases to Microsoft SQL Server.

When a migration to the .NET Framework is complete, you will have functionally equivalent, seamlessly integrated applications and Web capabilities that provide a greatly reduced cost structure, improved business agility, and new technical capabilities.

The ATERAS goal for the .NET Framework conversion is to maintain the “functionality” of the former mainframe applications while standardizing user Interfaces, n-tier architectures, inter- and intra-program processing, database structures and access, maintenance workflow, configuration management, and more.

The use of an automated migration has many benefits compared to the alternative of rewriting the application and losing the past investment. The data structures are mitigated to relational models keeping all the connections and dependences in tact, while enabling excellent performance. The new C# applications maintain the content and structure of the original application. This cost effective solution significantly decreases the risk, and time involved, while allowing current developers to continue maintaining and enhancing the migrated application.

Conversion Features for .NET Framework

- Produces an n-tier architecture that is modular and maintainable
- Enables a 100% automated migration, with no manual intervention
- Provides a complete solution for language, database, and platform modernization
- Creates a Presentation layer which includes ASP.NET web forms, JavaScript, and navigation framework classes
- Creates a Business Layer consisting of converted business code as C#/VB.NET
- Creates a Data Access Layer consisting of C#/VB.NET classes utilizing ADO.NET and Stored Procedures
- Automates the conversion of external application touch points commonly found in complex mainframe environments
- No Business Interruptions
- No on-going license fees
- No proprietary code or languages
- No Code Freeze
- SOA Enablement
- 100% Retention of business rules
- 100% Functionally equivalent applications and databases

